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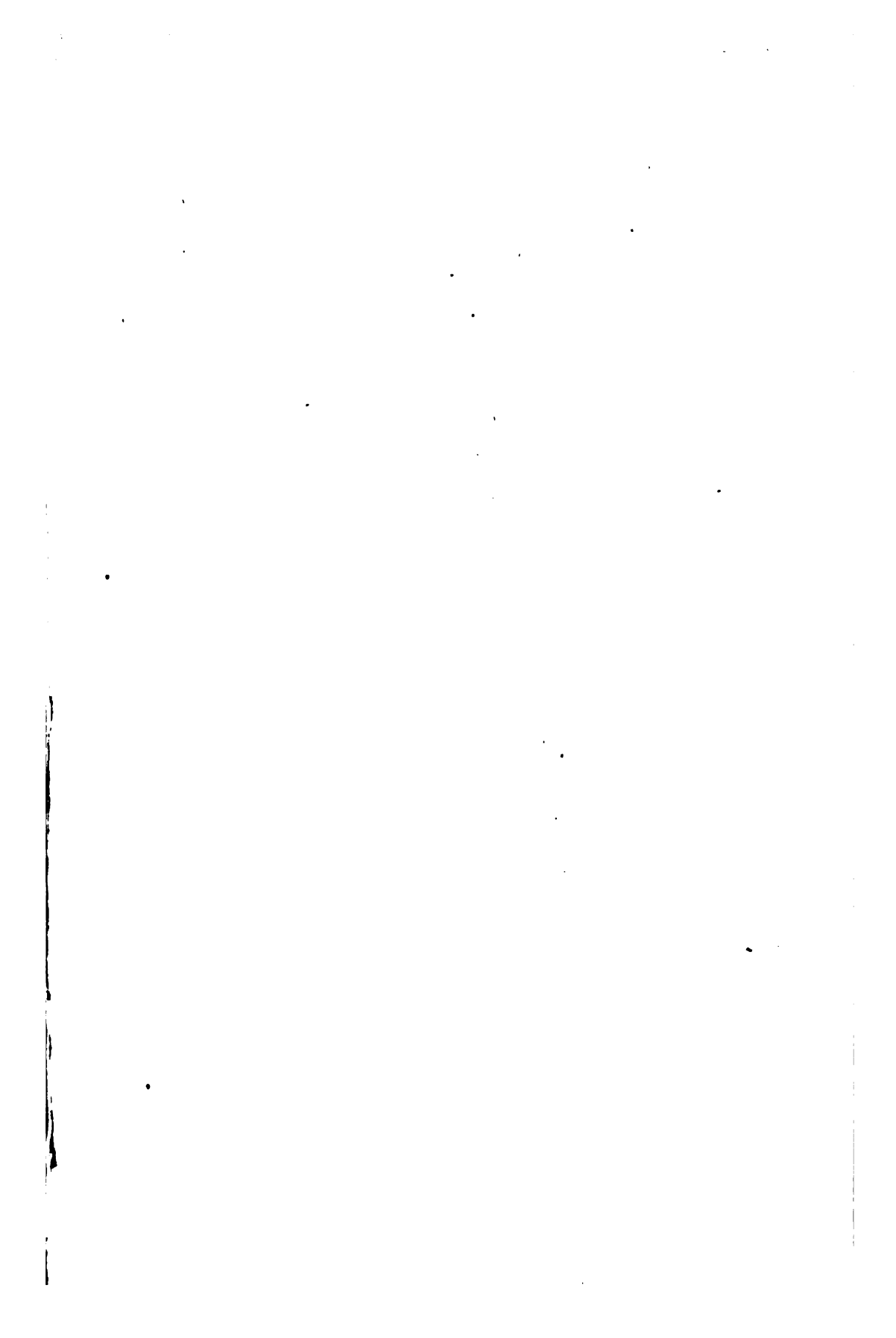
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TWENTY-FOURTH ANNUAL REPORT

OF THE

Commissioner of Statistics

OF THE

STATE OF MINNESOTA, *Bureau of Statistics*

FOR THE YEAR 1892.

TO THE GOVERNOR.



MINNEAPOLIS:
HARRISON & SMITH, PRINTERS.
1893.

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STATE OF MINNESOTA,
DEPARTMENT OF STATE,
BUREAU OF STATISTICS,
ST. PAUL, January 15, 1893. }

To His Excellency Knute Nelson, Governor of Minnesota :

SIR:—Herewith I have the honor to transmit, according to law, the report of the Commissioner of Statistics for the year 1892.

I have the honor to be, very respectfully,

Your obedient servant.

H. STOCKENSTROM,

Assistant Secretary of State and Commissioner of Statistics.

Statistical Publications of Minnesota.

OLD SERIES.

THE FIRST annual report of the Commissioner of Statistics for 1859, dated 1860, by Joseph A. Wheelock. (Out of print.)

THE SECOND annual report of the Commissioner of Statistics for 1860 and 1861, by Joseph A. Wheelock. (Out of print.)

NEW SERIES.

THE FIRST annual report of Statistics of Minnesota for 1869, by Pennock Pusey, Assistant Secretary of State and Commissioner of Statistics.

THE SECOND annual report of Statistics of Minnesota for 1870, by same.

THE THIRD annual report of Statistics of Minnesota for 1871, by C. F. Solberg, Assistant Secretary of State and Commissioner of Statistics.

THE FOURTH annual report for 1872, by same.

THE FIFTH annual report for 1873, by same.

THE SIXTH annual report for 1874, by same.

THE SEVENTH annual report for 1875, by same.

THE EIGHTH annual report for 1876, by Dr. J. B. Phillips, Assistant Secretary of State and Commissioner of Statistics.

THE NINTH annual report for 1877, by T. M. Metcalf, Assistant Secretary of State and Commissioner of Statistics. (Out of print.)

THE TENTH annual report for 1878, by John P. Jacobson, Assistant Secretary of State and Commissioner of Statistics.

THE ELEVENTH annual report for 1879, by same.

THE TWELFTH annual report for 1880, by F. S. Christensen, Assistant Secretary of State and Commissioner of Statistics.

THE THIRTEENTH annual report for 1881, by same.

THE FOURTEENTH annual report for 1882, by Oscar Malmros, Assistant Secretary of State and Commissioner of Statistics.

THE FIFTEENTH annual report for 1883, by Oscar Malmros, Assistant Secretary of State and Commissioner of Statistics.

THE SIXTEENTH annual report for 1884, by A. F. Nordin, Assistant Secretary of State and Commissioner of Statistics.

THE SEVENTEENTH annual report for 1885, by A. F. Nordin, Assistant Secretary of State and Commissioner of Statistics.

THE EIGHTEENTH annual report for 1886, by H. Stockenstrom, Assistant Secretary of State and Commissioner of Statistics.

THE NINETEENTH annual report for 1887, by H. Stockenstrom, Assistant Secretary of State and Commissioner of Statistics.

THE TWENTIETH annual report for 1888, by H. Stockenstrom, Assistant Secretary of State and Commissioner of Statistics.

THE TWENTY-FIRST annual report for 1889, by H. Stockenstrom, Assistant Secretary of State and Commissioner of Statistics.

THE TWENTY-SECOND annual report for 1890, by H. Stockenstrom, Assistant Secretary of State and Commissioner of Statistics.

THE TWENTY-THIRD annual report for 1891, by H. Stockenstrom, Assistant Secretary of State and Commissioner of Statistics.

THE TWENTY-FOURTH annual report for 1892, by H. Stockenstrom, Assistant Secretary of State and Commissioner of Statistics.

CHAPTER I.

AGRICULTURE.

RESULT OF THE HARVEST FOR 1891. (BY ASSESSORS.)

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TOTAL OF ACREAGE AND CROPS FOR 1891 AND TOTAL ACREAGE FOR 1892.

	Total acre- age, 1891.	Total yield, 1891.	Average yield per acre.	Total acre- age, 1892.
Wheat.....	2,030,343	53,207,022	18.10	3,469,656
Oats.....	1,273,730	44,000,937	34.50	1,382,531
Corn.....	693,295	18,901,583	27.20	643,702
Barley.....	397,208	11,680,887	29.40	524,012
Rye.....	56,242	936,881	16.60	87,257
Buckwheat.....	8,010	102,305	12.70	7,462
Potatoes.....	77,953	8,148,277	104.60	82,178
Beans.....	3,405	31,172	9.10	3,288
Sugar cane, gallons.....	1,673	130,095		2,171
Cultivated hay, tons.....	433,882	568,225		468,667
Flax seed, bushels.....	402,612	4,378,300		243,613
Other products.....	72,801			65,357
Total acres.	6,360,154			6,979,674

OTHER AGRICULTURAL PRODUCTS.

Wild hay, tons, 1891.....	1,632,122
Timothy seed, bushels, 1891.....	469,131
Clover seed, bushels, 1891.....	16,632
Apples, bushels, 1891.....	107,975
Grapes, pounds, 1891.....	220,403
Tobacco, pounds, 1891.....	49,591
Honey, pounds, 1891.....	331,247
Maple syrup, gallons, 1891.....	11,242
Maple sugar, pounds, 1892.....	13,840
Wool, pounds, 1891.....	668,550
Wool, pounds, 1892.....	1,265,161
Butter, pounds, 1891.....	27,203,945
Cheese, pounds, 1891.....	1,374,555

TOTAL YIELD OF ALL CROPS FOR THE LAST TEN YEARS FROM 1881.

Crops.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	*1889.	†1890.	1891.
Wheat, bushels.....	32,947,570	32,176,570	36,042,752	50,475,017	41,553,896	52,492,523	39,070,150	46,680,653	42,324,570	53,207,022
Oats, bushels.....	21,031,129	28,480,812	30,634,863	36,973,079	34,888,213	39,163,077	37,061,424	48,253,790	40,678,486	38,689,943
Corn, bushels.....	14,654,646	18,065,379	9,966,427	16,781,466	18,390,085	18,940,168	17,234,422	22,118,769	19,079,262	18,646,198
Barley, bushels.....	4,715,715	6,109,140	5,710,946	7,061,526	6,653,851	7,535,458	5,710,577	9,103,209	6,803,060	7,632,869
Rye, bushels.....	170,053	308,379	310,647	280,928	219,254	385,958	253,571	579,750	1,001,172	936,861
Buckwheat, bushels.....	42,847	81,758	65,910	113,756	64,910	96,791	108,704	147,917	219,402	152,702
Potatoes, bushels.....	3,997,167	5,074,736	7,113,813	6,563,844	5,439,720	5,763,336	4,920,735	6,444,137	7,069,067	6,444,231
Beans, bushels.....	22,204	43,029	34,707	32,940	22,302	33,860	21,235	32,717	43,602	34,206
Sugar cane syrup, gallons.....	694,016	506,634	159,251	458,152	327,072	240,252	148,774	249,198	220,251	238,560
Cultivated hay, tons.....	227,432	266,625	417,066	439,481	517,096	596,008	390,100	541,628	454,909	566,857
Flax seed, bushels.....	433,517	762,117	826,281	1,468,527	2,246,077	1,729,843	1,218,121	1,647,622	2,363,217	3,074,061
Wild hay, tons.....	1,261,069	1,564,397	1,617,307	1,563,921	1,669,980	2,066,527	2,123,535	1,623,749	1,791,063	2,131,138
Timothy seed, bushels.....	94,214	200,839	281,744	286,794	288,620	410,884	275,114	224,228	430,304	452,562
Clover seed, bushels.....	27,715	6,330	21,166	20,828	42,335	197,508	33,480	39,039	66,413	19,094
Apples, bushels.....	158,068	176,038	120,736	173,357	150,048	123,199	95,168	77,407	64,520	107,973
Grapes, pounds.....	200,616	203,727	182,078	269,404	186,309	206,200	246,529	661,109	120,174	185,004
Tobacco, pounds.....	70,631	62,859	14,744	47,472	64,065	65,920	28,131	27,069	33,621	49,591
Honey, pounds.....	144,162	163,999	254,964	223,943	243,428	341,047	210,563	13,959	746,463	381,247
Maple syrup, gallons.....	13,418	12,023	11,638	16,771	11,297	11,468	8,378	.....	17,108	8,855
Maple sugar, pounds.....	49,577	54,512	47,667	35,667	24,076	12,740	8,478	.....	23,430	16,289
Butter, pounds.....	16,052,020	17,136,788	20,525,357	24,053,631	24,495,074	27,938,028	28,117,472	20,165,137	32,218,210	27,263,946
Cheese, pounds.....	522,456	336,793	615,497	334,994	853,261	1,308,320	1,071,251	1,274,076	1,386,241	3,174,556
Wool, pounds, fall.....	.....	.....	.....	.....	.....	894,993	710,891	668,464	677,123	698,550
Wool, pounds, spring.....	.....	.....	.....	.....	.....	.....	1,224,251	1,163,967	1,361,725	1,266,161

*Estimated. †By assessors.

TWENTY-FOUR ANNUAL REPORT

ACREAGE OF THE PRINCIPAL CULTIVATED CROPS FOR ELEVEN YEARS FROM 1880.

CROPS.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	*1890.	+1890.	1900.	1901.
Wheat.....	2,081,842	2,984,100	2,320,090	2,507,200	3,109,874	3,043,683	3,319,707	3,053,987	2,921,437	2,738,519	3,078,787	2,939,343
Oats.....	682,530	728,867	706,133	822,649	1,089,688	1,036,803	1,232,706	1,323,910	1,384,165	1,539,773	1,598,187	1,273,730
Corn.....	422,461	474,030	625,312	530,230	536,133	580,523	598,677	612,477	688,122	701,868	728,461	666,265
Barley.....	118,486	106,917	237,385	266,207	283,252	246,919	338,400	322,612	333,017	280,698	323,281	397,236
Rye.....	12,312	13,091	19,300	20,666	18,237	18,186	17,868	21,814	31,534	51,789	50,252	56,242
Buckwheat.....	2,885	3,564	5,634	6,570	7,364	6,527	6,046	6,942	8,546	17,234	10,285	6,010
Potatoes.....	38,254	41,707	47,904	58,680	58,818	54,568	65,540	64,538	86,320	78,866	70,581	77,863
Beans.....	1,536	1,708	3,068	3,539	4,067	2,077	1,704	1,968	2,968	3,668	2,789	3,405
Sugar cane.....	6,914	7,398	8,192	3,534	4,029	3,402	3,327	2,288	4,060	2,999	3,976	1,673
Cultivated hay.....	135,722	171,512	108,183	286,951	338,949	394,523	424,878	385,259	410,474	417,008	423,660	433,862
Flax.....	40,004	73,619	79,547	70,840	128,845	214,878	226,406	167,264	167,540	235,602	408,141	402,012
Miscellaneous products.....	24,844	19,686	22,965	39,090	43,641	41,097	55,901	42,269	102,447	60,849	66,880	72,651
Total acreage.....	4,417,846	4,615,791	4,367,675	4,686,735	5,622,457	5,707,818	6,308,281	6,037,455	6,134,182	5,198,004	6,508,322	6,360,154
Increase over preceding year.....	404,772	167,936	.....	318,090	938,722	85,361	589,463	.....	96,677	.....	551,318	.....

* Estimated. + By assessors.

AVERAGE BUSHELS PER ACRE OF CROPS FOR THE LAST FIFTEEN YEARS FROM 1876.

CROPS.	1876	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	*1890.	+1890.	1900.	1901.
Wheat.....	9 61	16.78	12 50	11.30	18.30	11.42	13.81	14 37	16 23	13.55	15.80	12.70	15.90	15 30	13.00	18 10
Oats.....	23 04	32.19	38 66	26.42	33.40	30.14	34.44	34.65	33.93	31.38	32 10	28.40	28.60	30.40	29 00	34.50
Corn.....	25.84	23.47	34.90	31.95	31.07	20.91	26.42	21.76	31.32	28.07	31.70	26.80	22.10	27.40	25 00	27.20
Barley.....	22 70	26.38	26 96	24.87	23.21	21.40	23.74	21.76	21.54	23 27	22.80	16.10	16.10	23.40	24.50	29.40
Rye.....	14.21	14.38	15.99	14.98	13.89	12.99	15.81	15.46	15.40	14.44	16.80	11.60	18.30	19 30	16.80	16.60
Buckwheat.....	7.23	11.67	9.99	10.06	10.06	12.02	14.47	13.07	13.44	11.53	11.00	10.70	11.70	12.70	12 90	12.70
Beans.....	7.48	4.70	12 62	9.83	13.66	13.00	14 10	9.90	13.04	10.73	14.00	10.50	13.70	11.00	12 90	9.10
Potatoes.....	75.75	62.00	97.12	103.26	98.87	96.14	105.93	120.71	111.87	97.75	88.20	76.10	80 20	97.60	81.70	104.60

* Estimated. + By assessors.

PERCENTAGE IN EACH PARTICULAR CROP OF TOTAL CULTIVATED AREA FOR THE LAST FOURTEEN YEARS, *FROM 1877.

CROPS.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	*1888.	+1889.	1890.	1891.
Wheat.....	63.29	68.98	68.30	66.59	62.49	53.35	53.51	55.31	53.33	52.94	49.58	47.72	54.59	47.30	46.22
Oats.....	13.64	13.83	14.03	15.34	15.78	17.61	19.05	19.38	19.20	19.70	20.48	22.73	22.49	20.58	20.02
Corn.....	13.45	9.45	8.89	9.49	10.27	14.39	11.32	9.52	10.16	9.02	9.64	11.23	11.62	11.16	10.90
Barley.....	2.95	1.61	2.39	2.60	4.27	5.89	5.66	5.07	5.01	5.36	4.34	5.41	4.94	4.97	6.23
Rye.....	.31	.45	.28	.29	.26	.44	.44	.32	.27	.27	2.61	5.51	.96	0.78	0.89
Buckwheat.....	.23	.10	.06	.07	.08	.12	.14	.13	.10	.85	1.11	.13	.25	0.15	0.12
Total per ct. in grain crops	83.77	94.42	94.47	94.44	93.15	91.80	90.12	89.73	88.07	87.84	87.76	87.78	86.27	84.94	84.38
Beans.....	.12	.06	.05	.03	.03	.07	.06	1.02	.03	.03	.32	0.04	.06	0.04	0.05
Potatoes.....	1.35	2.08	.92	.86	.90	1.09	1.29	1.05	.95	1.84	1.07	1.17	1.29	1.22	1.22
Sugar cane.....	.07	.06	.12	.15	.16	.14	.08	.06	.06	.05	.37	0.06	.05	0.06	0.04
Cultivated hay.....	3.83	3.55	3.83	3.05	3.71	4.54	6.12	6.03	6.40	8.90	6.38	6.75	7.00	6.58	6.83
Flax.....	.20	.06	.32	.90	1.59	1.83	1.52	2.26	3.76	3.60	2.70	2.56	4.30	6.28	6.33
Miscellaneous products.....	.62	.79	.26	.57	1.46	.53	.82	.78	.73	.85	1.40	1.69	1.03	0.88	1.15
Totals.....	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

*Estimated.
+by assessor.

THE CROPS OF 1891.

Total cultivated territory of the state.....6,360,154

WHEAT.

TABLE I.—WHEAT CROP FOR 1891.

Acres sown.....	2,939,343
Bushels produced.....	53,207,022
Average yield per acre.....	18.10
Acres in wheat 1892.....	3,469,656

The aggregate and average yield of Wheat during twenty-three years from 1868.

YEARS.	Acres sown.	Bush's wheat produced.	Average per acre.
1868.....	868,316	15,382,022	17.91
1869.....	997,029	16,587,621	17.70
1870.....	1,019,744	15,372,941	15.07
1871.....	1,096,578	13,467,860	12.28
1872.....	1,267,309	22,064,375	17.40
1873.....	1,549,715	26,402,486	17.04
1874.....	1,681,330	23,038,172	16.04
1875.....	1,764,109	30,070,300	17.05
1876.....	1,869,172	17,964,632	9.61
1877.....	1,829,167	30,693,969	16.75
1878.....	2,385,775	20,484,503	12.50
1879.....	2,762,521	31,218,634	11.30
1880.....	2,961,342	39,399,068	13.30
1881.....	2,884,160	32,947,570	11.42
1882.....	5,329,989	32,176,268	13.81
1883.....	2,507,209	36,042,672	14.37
1884.....	3,109,674	50,475,017	16.24
1885.....	3,043,693	41,253,888	13.55
1886.....	3,319,701	52,492,523	15.80
1887.....	3,053,987	39,070,159	12.70
1889 estimated.....	2,921,437	46,660,583	15.90
1889 by assessors.....	2,736,519	42,334,670	15.30
1890.....	3,078,787	40,298,142	13.00
1891.....	2,939,343	53,207,022	18.10

THE GREATEST WHEAT PRODUCING COUNTIES IN 1891.

The following counties produced over 1,000,000 bushels, to wit:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Brown.....	73,471	1,246,705	17.00
Douglas.....	69,268	1,490,327	21.80
Kandiyohi.....	74,070	1,217,296	16.40
McLeod.....	50,354	1,101,211	21.90
Marshall.....	87,113	1,736,086	19.90
Neeker.....	71,406	1,071,090	15.00
Nicollet.....	60,745	1,275,975	18.30
Norman.....	94,803	1,774,286	18.70
Otter Tail.....	74,264	1,505,426	20.30
Redwood.....	64,564	1,150,186	17.80
Renville.....	106,474	1,773,664	16.70
Sibley.....	84,003	1,590,818	18.90
Stearns.....	117,269	1,948,391	16.60
Swift.....	63,184	1,078,744	17.10
Yellow Medicine.....	73,484	1,585,007	21.60

THE GREATEST WHEAT PRODUCING COUNTIES IN 1890.
The following counties produced over 1,000,000 bushels, to wit:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Clay	93,568	1,284,551	13.70
Faribault	84,014	1,197,847	14.20
Kandiyohi	77,847	1,032,218	14.00
Lac qui Parle	84,437	1,039,030	12.30
Marshall	82,810	1,056,425	11.80
Norman	84,188	1,283,429	15.30
Otter Tail	111,065	1,597,142	14.30
Polk	222,222	3,052,754	13.50
Renville	74,089	1,033,565	14.00
Sibley	85,501	1,053,267	12.30
Stearns	123,158	1,807,245	14.70
Yellow Medicine	77,882	1,049,421	13.10

THE GREATEST WHEAT PRODUCING COUNTIES IN 1889.
The following counties produced over 1,000,000 bushels, to wit:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Blue Earth, estimated	64,000	1,775,400	28.90
Brown, estimated	65,000	1,105,000	17.00
Clay, estimated	100,000	1,240,000	12.00
Dakota, estimated	123,550	1,235,000	9.90
Douglas, estimated	55,000	1,000,000	18.10
Faribault, estimated	65,000	1,000,000	20.00
Freeborn, estimated	50,000	1,000,000	20.00
Lac qui Parle, estimated	82,000	1,312,000	16.00
McLeod, estimated	60,000	1,000,000	16.60
Nicollet, estimated	65,000	1,300,000	20.00
Otter Tail, estimated	108,220	2,164,400	20.00
Polk, estimated	160,000	1,900,000	12.00
Pope, estimated	580,000	1,044,000	15.00
Renville, estimated	88,900	1,333,500	15.00
Sibley, estimated	75,000	1,500,000	20.00
Swift, estimated	50,425	1,008,700	20.00
Wright, estimated	50,000	1,000,000	20.00
Blue Earth, by assessors	70,890	1,268,249	17.90
Brown, by assessors	66,147	1,209,053	18.30
Douglas	50,708	1,124,464	18.80
Lac qui Parle	97,065	1,564,586	16.00
McLeod	53,531	1,058,982	19.80
Marshall	85,470	1,067,155	12.50
Nicollet	61,515	1,160,573	18.90
Norman	94,051	1,041,707	11.10
Otter Tail	104,784	1,707,775	16.30
Polk	194,080	3,010,581	17.60
Pope	77,148	1,070,236	13.00
Renville	118,473	1,604,004	13.50
Sibley	77,924	1,505,142	19.30
Stearns	91,845	1,557,447	14.00

THE GREATEST WHEAT PRODUCING COUNTIES IN 1887.
The following produced over 1,000,000 bushels to wit.

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Blue Earth	66,202	1,123,720	18.40
Faribault	70,951	1,123,958	15.80
Kittson	45,114	1,159,886	25.70
Marshall	55,908	1,224,885	21.80
Norman	84,604	1,162,422	13.70
Otter Tail	98,382	1,184,730	11.10
Polk	157,640	2,884,897	18.30
Renville	100,245	1,459,672	14.50
Sibley	68,568	1,163,582	16.90
Stearns	101,223	1,118,054	11.00

THE GREATEST WHEAT PRODUCING COUNTIES IN 1886.

The following produced over 1,000,000 bushels, to wit.

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Blue Earth.....	64,487	1,114,270	17 20
Clay.....	64,645	1,797,666	27 70
Douglas.....	46,957	1,020,854	21 70
Goodhue.....	121,372	1,791,671	14 70
Kandiyohh.....	62,752	1,090,635	16 40
McLeod.....	52,252	1,000,223	17 00
Nicollet.....	61,807	1,025,678	16 50
Norman.....	82,281	1,411,907	17 10
Otter Tail.....	123,681	2,403,782	19 40
Polk.....	140,874	2,132,800	15 10
Renville.....	75,306	1,068,253	14 00
Sibley.....	65,993	1,104,581	16 70
Stearns.....	99,444	1,774,481	17 80
Wright.....	45,876	1,005,351	21 90

OATS.

TABLE II.—OATS IN 1891.

Acres sown.....	1,273,730
Bushels produced.....	44,000,937
The average yield per acre.....	34 50
Acres in oats in 1892.....	1,382,531

The following table gives the yield and average for twenty-two years from 1869.

YEARS.	Acres.	Bushels.	Average.
1869.....	280,015	9,785,959	37 53
1870.....	317,211	9,895,164	31 19
1871.....	334,798	10,689,464	31 92
1872.....	372,478	12,550,753	33 60
1873.....	368,493	12,544,536	34 04
1874.....	383,233	10,967,072	28 61
1875.....	401,381	13,801,761	34 38
1876.....	458,590	10,566,178	23 04
1877.....	419,943	18,819,630	44 80
1878.....	474,557	18,328,356	38 65
1879.....	567,371	20,667,922	36 42
1880.....	682,530	22,867,022	33 49
1881.....	728,367	21,954,126	30 14
1882.....	799,133	26,480,842	34 44
1883.....	892,649	30,964,303	34 65
1884.....	1,089,638	36,973,079	33 93
1885.....	1,095,805	34,358,213	31 38
1886.....	1,242,808	39,983,607	32 10
1887.....	1,325,910	37,661,424	28 40
1889 estimated.....	1,394,555	48,253,790	34 60
1889 by assessors.....	1,339,773	40,678,486	30 40
1890.....	1,349,967	38,989,943	29 00
1891.....	1,273,730	44,000,937	34 50

The counties producing the largest crop of Oats in 1891 were:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Fillmore.....	58,729	1,985,234	33 80
Freeborn.....	27,26	1,005,364	36 80
Goodhue.....	44,789	1,584,374	35 40
Martin.....	29,908	1,108,683	37 10
Meeker.....	22,580	1,128,000	50 00
Mower.....	55,076	2,106,084	38 20
Olsted.....	32,420	1,384,552	42 70

The counties producing the largest crop of Oats in 1890 were:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Dakota.....	67,654	2,101,470	30.90
Fillmore.....	54,936	1,606,590	29.20
Goodhue.....	42,728	1,382,724	32.36
Mower.....	45,637	1,299,934	28.30
Olmsted.....	35,652	1,147,624	32.10
Polk.....	38,839	1,044,406	26.80
Steele.....	22,896	1,005,567	43.90

The counties producing the largest crop of Oats in 1889 were:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Faribault, estimated.....	85,000	1,150,000	30.00
Fillmore, ".....	78,102	3,121,080	40.00
Freeborn, ".....	30,000	1,500,000	50.00
Goodhue, ".....	60,000	2,400,000	40.00
Houston, ".....	36,395	1,819,750	50.00
Martin, ".....	50,000	2,000,000	40.00
Mower, ".....	54,800	2,740,000	50.00
Olmsted, ".....	38,800	1,277,666	32.90
Polk, ".....	35,000	1,050,000	30.00
Rice, ".....	36,400	1,820,000	50.00
Sibley, ".....	20,000	1,000,000	50.00
Winona, ".....	39,466	1,775,970	45.00
Blue Earth, by assessors.....	83,958	1,194,805	35.20
Dakota, ".....	76,642	1,354,042	30.70
Fillmore, ".....	59,232	2,305,224	38.90
Goodhue, ".....	50,253	1,950,523	38.80
Houston, ".....	32,519	1,091,091	33.50
Mower, ".....	45,650	1,836,191	40.20
Olmsted, ".....	38,655	1,384,411	36.00
Winona, ".....	32,968	1,346,517	40.80

The counties producing over one million bushels of Oats in 1887 were:

COUNTIES.	Acres sown.	Total bushels.	Bushels per acre.
Blue Earth.....	27,568	1,049,281	38.00
Dakota.....	54,011	1,636,915	30.30
Faribault.....	40,504	1,286,383	32.00
Fillmore.....	66,682	1,159,743	17.30
Mower.....	57,281	1,835,815	32.00
Olmsted.....	38,801	1,161,353	29.90
Polk.....	34,243	1,219,519	35.60

The counties producing the largest crop of Oats in 1886 were:

COUNTIES.	Acres sown.	Total bushels.	Bushels per acre.
Dakota.....	42,217	1,016,425	24.70
Fillmore.....	52,752	1,356,366	25.70
Goodhue.....	34,347	1,205,276	37.70
Mower.....	42,810	1,383,917	32.30
Olmsted.....	36,531	1,247,242	33.80
Otter Tail.....	27,202	1,005,224	36.90
Stearns.....	27,633	1,078,301	38.60

CORN.

TABLE III.—CORN IN 1891.

Acres planted.....	693,295
Number of bushels.....	18,901,853
The average yield per acre.....	27.20
Average, 1891.....	642,702

The following table exhibits the area and yield of Corn for a series of twenty three years from 1868.

YEARS.	Acres.	Bushels.	Average.
1868.....	129,909	4,840,938	37.33
1869.....	146,482	4,194,965	30.73
1870.....	178,129	5,650,370	31.66
1871.....	200,124	7,078,298	35.35
1872.....	216,455	7,142,245	32.99
1873.....	209,450	6,457,368	30.87
1874.....	256,496	7,340,342	28.64
1875.....	247,816	7,195,581	29.41
1876.....	295,089	7,623,043	25.84
1877.....	328,708	9,151,281	27.89
1878.....	324,174	11,286,515	34.90
1879.....	379,766	12,939,901	33.96
1880.....	422,461	13,125,255	31.07
1881.....	474,030	14,654,646	30.91
1882.....	628,512	16,606,379	26.42
1883.....	530,220	5,886,427	11.10
1884.....	535,133	16,761,495	31.32
1885.....	590,228	16,200,035	28.07
1886.....	596,877	18,940,026	31.70
1887.....	642,477	17,234,422	26.80
1889, estimated.....	688,622	22,115,769	32.10
1889, by assessors.....	704,369	19,079,262	27.10
1890.....	726,493	18,848,198	25.90
1891.....	693,295	18,901,853	27.20

The counties producing the largest crop of Corn in 1891 were:

COUNTIES	Acres.	Bushels.	Average yield per acre.
Fillmore.....	42,866	1,365,027	31.70
Goodhue.....	22,423	611,730	27.30
Houston.....	37,086	793,602	29.30
Martin.....	20,173	609,716	30.30
Olmito.....	22,658	649,677	28.70
Winona.....	20,440	633,207	31.00

The counties producing the largest crop of Corn in 1890 were:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Blue Earth.....	26,901	733,014	21.10
Faribault.....	47,933	798,735	16.60
Fillmore.....	39,495	970,650	24.50
Freeborn.....	31,258	953,039	30.40
Houston.....	27,042	806,085	29.80

The counties producing the largest crop of Corn in 1889 were:

COUNTIES.	Acres.	Bushels.	Average.
Blue Earth, estimated.....	27,000	1,060,000	40.00
Fillmore, estimated.....	42,868	1,280,640	30.00
Goodhue, estimated.....	30,000	1,200,000	40.00
Houston, estimated.....	34,500	1,725,000	50.00
Martin, estimated.....	37,500	1,312,500	35.00
Winona, estimated.....	20,225	1,012,750	50.00
Blue Earth, by assessors.....	36,786	1,117,900	30.40
Houston, by assessors.....	34,098	1,132,872	33.20

The principal Corn producing counties for 1887 were:

COUNTIES.	Acres.	Bushels.	Yield per acre.
Blue Earth.....	27,103	840,513	31.00
Faribault.....	35,094	1,138,956	32.40
Freeborne.....	26,620	1,048,578	29.30
Houston.....	31,932	608,977	19.06
Le Sueur.....	15,830	668,828	42.20
Martin.....	14,239	538,299	37.80
Mower.....	21,798	610,010	27.90

The principal Corn producing counties for 1886 were:

COUNTIES.	Acres.	Bushels.	Yield per acre.
Blue Earth.....	25,906	795,061	30.00
Fillmore.....	37,009	1,042,960	28.10
Freeborn.....	20,954	675,474	32.20
Hennepin.....	16,803	626,464	36.40
Houston.....	26,241	716,184	27.20
Le Sueur.....	15,073	637,441	42.20
Mower.....	20,843	620,545	29.70
Olmsted.....	26,099	843,401	32.80
Winona.....	19,826	690,697	35.70

BARLEY.

TABLE IV.—BARLEY IN 1891.

Number of acres sown.....	397,208
Number of bushels.....	11,689,887
Average yield per acre.....	29.40
Acreage 1892.....	524,012

By the following table the crop acreage and average yield may be compared with those of the last twenty-four years from 1867:

YEARS.	Acres.	Bushels.	Average.
1867.....	11,862	316,715	26.70
1868.....	18,150	518,600	28.50
1869.....	31,695	851,113	26.85
1870.....	64,766	1,518,686	23.43
1871.....	64,558	1,627,007	25.20
1872.....	56,785	1,495,491	26.33
1873.....	35,501	669,415	18.86
1874.....	29,028	611,545	21.17
1875.....	40,803	1,230,420	30.15
1876.....	70,648	1,608,463	22.70
1877.....	79,334	2,239,650	26.37
1878.....	55,423	1,498,668	26.95
1879.....	96,951	2,423,032	24.87
1880.....	118,480	2,751,638	23.21
1881.....	196,917	4,215,715	21.40
1882.....	257,385	6,109,140	23.73
1883.....	265,207	5,770,946	21.76
1884.....	285,252	7,001,526	24.54
1885.....	285,919	6,651,851	23.27
1886.....	338,400	7,535,488	22.20
1887.....	322,612	5,216,397	16.10
1888 estimated.....	332,017	9,106,209	27.40
1889 by assessors.....	290,668	6,803,030	23.40
1890.....	323,281	7,432,889	24.50
1891.....	397,208	11,689,887	29.40

The prominent counties in the cultivation of Barley in 1891 were:

COUNTIES.	Acres.	Bushels.	Av'ge yield per acre.
Fillmore.....	31,419	716,731	22.80
Goodhue.....	41,632	1,464,611	35.50
Mower.....	31,971	1,169,707	36.60
Olmsted.....	38,868	1,183,524	30.50
Winona.....	38,741	1,148,432	29.60

The prominent counties in the cultivation of Barley in 1890 were:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Goodhue.....	38,957	941,259	24.10
Mower.....	19,439	568,060	29.20
Olmsted.....	34,770	1,218,439	35.00
Winona.....	34,807	683,224	19.60

The prominent counties in the cultivation of this crop in 1889 were:

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Goodhue, estimated.....	60,000	1,800,000	30.00
Mower, estimated.....	18,000	720,000	40.00
Olmsted, estimated.....	38,146	1,582,040	41.50
Winona, estimated.....	36,777	1,086,665	29.50
Olmsted, by assessors.....	28,814	979,785	34.00
Winona, by assessors.....	27,539	943,397	34.30

The counties producing the largest crop of Barley in 1887 were:

COUNTIES.	Acres.	Bushels.	Yield per acre.
Goodhue.....	37,750	711,186	18.80
Olmsted.....	38,146	520,128	13.80
Mower.....	23,728	451,013	19.00
Wabasha.....	28,112	412,318	14.00

The counties producing the largest crop of Barley in 1886 were:

COUNTIES.	Acres.	Bushels.	Yield per acre.
Fillmore.....	29,678	619,896	20.80
Goodhue.....	33,850	755,297	22.30
Olmsted.....	37,715	862,641	22.60
Winona.....	28,037	688,448	24.50

RYE.

TABLE V.—RYE IN 1891.

Acres.....	56,242
Bushels produced.....	936,881
Average yield per acre.....	16.60
Acreage 1892.....	87,267

The acreage, bushels produced and average per acre of the rye crop for the last twenty-four years, from 1867, are as follows:

YEARS.	Acres.	Bushels.	Average.
1867.....	1,968	32,763	16.43
1868.....	2,713	52,100	19.02
1869.....	4,428	72,281	16.32
1870.....	3,949	73,375	18.58
1871.....	8,061	130,928	16.24
1872.....	11,365	182,780	16.07
1873.....	6,982	96,887	13.87
1874.....	4,787	58,100	12.15
1875.....	4,345	71,367	16.42
1876.....	5,285	75,132	14.21
1877.....	9,202	132,041	14.38
1878.....	13,813	221,728	15.99
1879.....	11,534	172,887	14.98
1880.....	12,312	170,817	13.89
1881.....	13,091	170,053	12.99
1882.....	19,500	306,373	15.81
1883.....	20,666	319,647	15.46
1884.....	18,237	280,926	15.40
1885.....	15,186	219,194	14.44
1886.....	17,588	295,928	16.80
1887.....	21,844	255,571	11.60
1889 estimated.....	31,584	579,750	18.30
1889 by assessors.....	51,789	1,001,172	19.30
1890.....	50,202	845,207	16.80
1891.....	56,242	936,881	16.60

The following counties produced the largest crop of rye in 1891:

COUNTIES.	Acres.	Bushels.	Average.
Goodhue.....	6,359	113,455	17.80
Sherburne.....	4,313	51,345	11.90
Washington.....	3,270	64,610	19.80

The following counties produced the largest crop of rye in 1890.

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Dakota.....	2,951	49,917	16.90
Goodhue.....	6,090	108,123	17.70
Isanti.....	2,581	35,251	13.70
Rice.....	1,519	30,126	19.80
Sherburne.....	4,400	69,070	15.80
Washington.....	2,800	53,954	27.70

The following counties produced the largest crop of rye in 1889.

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Chisago, estimated.....	1,000	20,000	20.00
Goodhue, estimated.....	4,000	60,000	15.00
Houston, estimated.....	900	22,500	25.00
Rice, estimated.....	1,170	23,400	20.00
Scott, estimated.....	1,800	36,300	20.17
Sherburne, estimated.....	2,000	36,000	18.00
Wadena, estimated.....	1,000	20,000	20.00
Washington, estimated.....	5,000	110,000	22.00
Isanti, by assessors.....	3,302	56,541	17.20
Scott, by assessors.....	3,027	62,837	20.80
Washington, by assessors.....	2,796	60,574	21.30
Winona, by assessors.....	3,115	68,876	22.10

The prominent counties in the cultivation of this crop in 1887 were:

COUNTIES.	Acres.	Bushels.	Yield per acre.
Dakota.....	2,710	26,432	9.70
Goodhue.....	2,267	25,778	11.30
Rice.....	831	14,338	17.20
Scott.....	1,178	19,256	16.30
Washington.....	2,008	24,840	12.30

The prominent counties in the cultivation of this crop in 1886 were:

COUNTIES.	Acres.	Bushels.	Yield per acre.
Blue Earth.....	976	27,030	27.60
Goodhue.....	765	18,232	23.80
Scott.....	1,027	18,600	18.10
Anoka.....	1,255	18,142	12.80
Dakota.....	997	16,013	16.00
Washington.....	709	14,613	20.60

BUCKWHEAT.

TABLE VI.—BUCKWHEAT IN 1891.

Acres.....	8,010
Bushels.....	102,365
Average yield.....	12.70
Acres 1892.....	7,462

The table following gives the number of bushels raised each year for the last twenty-three years, from 1867.

YEARS.	Acres.	Bushels.	Average.
1867.....	1,102	15,191	13.71
1868.....	1,538	25,292	16.40
1869.....	2,736	46,038	16.88
1870.....	8,818	63,309	16.59
1871.....	3,597	54,152	15.06
1872.....	3,001	40,359	13.70
1873.....	2,685	29,445	10.92
1874.....	2,861	27,623	9.65
1875.....	3,338	42,425	12.70
1876.....	9,240	66,847	7.23
1877.....	6,805	79,448	11.67
1878.....	3,766	37,971	9.99
1879.....	3,380	33,163	9.80
1880.....	3,955	30,736	10.06
1881.....	3,664	42,847	12.09
1882.....	2,650	31,758	14.47
1883.....	6,570	85,910	13.07
1884.....	7,364	113,756	15.44
1885.....	5,627	64,919	11.53
1886.....	5,045	55,791	11.00
1887.....	6,902	108,704	15.70
1888, estimated.....	8,558	147,917	17.20
1889, by assessors.....	17,294	219,492	12.70
1890.....	10,235	132,702	12.90
1891.....	8,010	102,365	12.70

The following counties produced the largest crop of buckwheat in 1891.

COUNTIES.	Acres.	Bushels.	Av. yield per acre.
Fillmore.....	1,185	12,372	10.50
Mower.....	746	11,529	15.50
Rice.....	207	9,821	47.40
Winona.....	619	7,647	12.40

The following counties produced the largest crop of buckwheat in 1890.

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Dakota.....	859	14,491	16.80
Fillmore.....	1,237	10,529	8.50
Mower.....	855	10,541	12.30
Rice.....	495	7,007	14.10
Winona.....	584	9,156	15.50

The following counties produced the largest crop of buckwheat in 1889.

COUNTIES.	Acres.	Bushels.	Average yield per acre.
Goodhue, estimated.....	700	12,000	17.10
Rice, estimated.....	1,050	21,000	20.90
Winona, estimated.....	662	19,880	30.00
Dakota, by assessor.....	1,800	22,845	14.30
Goodhue, by assessors.....	1,950	25,586	13.10

The prominent counties in the cultivation of this crop in 1887 were:

COUNTIES.	Acres.	Bushels.	Yield per acre.
Fillmore.....	736	14,443	19.60
Dakota.....	453	7,258	17.50
Mower.....	646	8,672	13.40
Winona.....	502	9,906	16.70

POTATOES.

TABLE VII.—POTATOES IN 1891.

Acres.....	77,953
Bushels.....	8,148,277
Average yield.....	104.60
Acreage, 1892.....	82,173

The subjoined table gives the acreage, production and average for a series of twenty-four years from 1867:

YEARS.	Acres.	Bushels potatoes.	Average per acre.
1867.....	17,747	1,788,053	101.32
1868.....	24,475	2,592,666	105.90
1869.....	20,632	1,488,428	71.44
1870.....	19,085	1,372,975	71.94
1871.....	21,429	2,153,536	100.49
1872.....	26,061	3,072,349	117.89
1873.....	26,360	2,196,188	83.31
1874.....	28,219	2,283,107	80.96
1875.....	31,487	3,782,637	120.26
1876.....	32,703	3,477,384	75.75
1877.....	40,770	2,426,002	62.00
1878.....	33,559	3,250,181	97.12
1879.....	37,915	3,915,890	103.26
1880.....	38,254	3,782,243	98.87
1881.....	41,707	3,997,187	95.84
1882.....	47,904	5,074,736	105.90
1883.....	58,930	7,113,813	120.71
1884.....	58,848	6,583,844	111.87
1885.....	54,503	5,339,720	97.75
1886.....	65,540	5,783,335	88.20
1887.....	64,658	4,920,735	76.10
1889, estimated.....	80,320	6,444,137	80.20
1889, by assessors.....	76,896	7,609,097	97.60
1890.....	78,881	6,444,231	81.70
1891.....	77,953	8,148,277	104.60

The following counties produced the largest crop of potatoes in 1891:

COUNTIES.	Acres.	Bushels.
Anoka.....	2,646	280,145
Chisago.....	4,474	562,641
Hennepin.....	6,413	752,867
Isanti.....	4,072	611,973
Meeker.....	2,525	227,250
Washington.....	1,982	240,654

The following counties produced the largest crop of potatoes in 1890:

COUNTIES	Acres.	Bushels.
Anoka.....	2,343	221,080
Chisago.....	3,244	413,219
Dakota.....	5,810	274,040
Hennepin.....	6,160	510,512
Isanti.....	3,662	436,408

The following counties produced the largest crop of potatoes in 1889:

COUNTIES.	Acres.	Bushels.
Blue Earth, estimated.....	2,000	240,000
Chisago, ".....	3,000	240,000
Hennepin, ".....	8,000	720,000
Houston, ".....	1,300	200,000
Polk, ".....	2,300	250,000
Sherburne, ".....	2,500	375,000
Steele, ".....	1,500	250,000
Washington, ".....	2,200	275,000
Anoka, by assessors.....	2,966	308,641
Chisago, ".....	2,958	489,981
Dakota, ".....	3,001	313,974
Hennepin, ".....	6,636	684,201
Isanti, ".....	3,842	477,771
Washington, ".....	2,205	302,556

The counties producing the largest crop in 1887 were:

COUNTIES.	Acres.	Bushels.
Blue Earth.....	2,917	239,625
Dakota.....	2,635	282,744
Hennepin.....	5,674	404,400
Polk.....	2,544	236,661

BEANS.

TABLE VIII—BEANS IN 1891.

Acres.....	3,405
Bushels.....	31,172
Average yield.....	9.10
Acres, 1892.....	3,288

The bean crop of the State for the last twenty-four years, from 1867, is exhibited by the following table:

YEARS.	Acres.	Bushels.	Average.
1867.....	527	8,020	15.23
1868.....	1,027	13,671	13.00
1869.....	1,829	27,061	15.12
1870.....	1,845	24,950	13.52
1871.....	1,506	19,658	13.01
1872.....	1,482	19,156	12.92
1873.....	1,184	14,246	12.56
1874.....	2,154	15,795	7.33
1875.....	2,543	23,090	9.06
1876.....	1,832	13,996	7.48
1877.....	3,075	14,471	4.70
1878.....	2,280	28,037	12.52
1879.....	2,156	24,434	11.23
1880.....	1,538	20,904	13.66
1881.....	1,703	22,294	13.09
1882.....	3,095	43,929	14.19
1883.....	3,539	34,707	9.80
1884.....	4,057	52,940	13.04
1885.....	2,077	22,302	10.73
1886.....	1,704	23,860	14.00
1887.....	1,985	21,235	30.89
1888, estimated.....	2,568	32,717	12.70
1889, by assessors.....	3,658	43,602	11.90
1890.....	2,789	34,206	12.20
1891.....	3,405	31,172	9.10

The following counties raised the largest bean crop in 1891:

COUNTIES.	Acres.	Bushels.
Goodhue.....	301	3,662
Isanti.....	393	2,997

The following counties raised the largest bean crop in 1890:

COUNTIES.	Acres.	Bushels.
Anoka.....	216	4,352
Isanti.....	233	3,399

The largest crops of beans in 1889 were produced in the following counties:

COUNTIES.	Acres.	Bushels.
Blue Earth, estimated	84	2,600
Fillmore, estimated.....	211	2,110
Goodhue, estimated.....	150	1,500
Sherburne, estimated.....	250	3,750
Washington, estimated.....	100	1,600
Anoka, by assessors.....	261	3,597
Goodhue, by assessors.....	387	3,440
Isanti, by assessors.....	288	3,583

The following counties produced the largest crop of beans in 1887:

COUNTIES.	Acres.	Bushels.
Anoka.....	193	1,186
Blue Earth.....	84	2,006
Fillmore.....	185	2,528

SUGAR CANE.

TABLE IX.—SUGAR CANE IN 1891.

Acres.....	1,673
Gallons.....	130,095
Sugar, pounds.....	3,131
Acres, 1892.....	2,171

The product and acreage of sugar cane from 1868, for the last twenty-three years are given herewith.

YEARS.	Acres.	Gallons syrup.	Pounds sugar.
1868		81,375	
1869	620	81,191	
1870	728	54,370	
1871	1,242	73,425	
1872	859	78,065	
1873	747	53,225	
1874	1,146	69,509	
1875	1,584	70,479	
1876	1,065	72,489	
1877	2,200	140,153	
1878	3,207	329,660	
1879	5,033	446,946	
1880	6,914	662,537	
1881	7,396	684,066	
1882	6,192	509,654	
1883	3,834	159,281	
1884	4,620	458,152	
1885	3,202	327,072	
1886	3,527	240,252	
1887	2,268	198,774	352
1888, estimated	4,080	240,198	79
1889, by assessors	2,909	220,251	79
1890	3,978	238,560	7,111
1891	1,673	130,095	2,171

The largest quantities of syrup in 1891 were produced in the following counties:

COUNTIES.	Acres.	Gallons syrup.
Carver	134	12,843
Goodhue	127	12,966
Nicollet	135	10,180

The largest quantities of syrup in 1890 were produced in the following counties:

COUNTIES.	Acres.	Gallons syrup.
Big Stone	298	22,038
Carver	221	19,893
Hennepin	184	16,382
Nicollet	179	16,210
Wright	312	28,849

The largest quantities of syrup in 1889 were produced in the following counties.

COUNTIES.	Acres.	Gallons syrup.
Blue Earth, estimated	150	17,000
Goodhue, estimated	1,000	60,000
Martin, estimated	300	30,000
Nicollet, estimated	150	15,000
Blue Earth, by assessor	233	23,403
Carver, by assessor	173	18,104
Nicollet, by assessor	139	16,084

The following counties produced the largest quantities of syrup in 1887:

COUNTIES.	Acres.	Gallons syrup.
Blue Earth.....	170	18,185
Le Sueur.....	190	22,387
Martin.....	131	15,352
Nicollet.....	126	12,866

HAY.

TABLE X AND XII.—CULTIVATED AND WILD HAY IN 1891.

Tons wild hay.....	1,632,122
Acres cultivated.....	433,882
Tons cultivated hay..	568,225
Acreage, 1892.....	468,667

The hay crop for the last nineteen years of cultivated and wild hay from 1872, was as follows:

YEARS.	WILD HAY.	CULTIVATED HAY.	
	Tons.	Acres.	Tons.
1872.....	743,414	88,990	108,028
1873.....	783,618	104,525	144,712
1874.....	1,006,212	104,107	138,868
1875.....	878,782	47,592	122,813
1876.....	935,961	174,888	135,860
1877.....	974,224	112,056	131,647
1878.....	1,110,241	121,228	155,296
1879.....	1,300,506	145,180	194,964
1880.....	1,263,472	135,722	175,595
1881.....	1,261,069	171,512	227,433
1882.....	1,564,597	198,183	269,925
1883.....	1,617,307	786,951	417,099
1884.....	1,856,921	838,039	439,481
1885.....	1,939,939	365,523	517,098
1886.....	2,060,527	424,878	586,608
1887.....	2,120,526	385,259	390,100
1889, estimated.....	1,624,749	410,474	481,528
1889, by assessors.....	1,791,663	417,608	454,909
1890.....	2,131,138	428,660	536,897
1891.....	1,632,122	433,882	568,225

The following counties raised the largest hay crop in 1891.

COUNTIES.	WILD HAY.	CULTIVATED HAY.	
	Tons.	Acres.	Tons.
Kandiyohi.....	68,856		
Lac qui Parle.....	55,000		
Martin.....	63,556		
Nicollet.....	50,809		
Renville.....	50,299		
Stearns.....	51,528		
Fillmore.....		37,841	49,686
Goodhue.....		43,787	46,881
Houston.....		20,085	25,069
Mower.....		35,946	48,088
Olmsted.....		29,171	45,903
Washington.....		17,236	20,840
Winona.....		25,586	33,932

The following counties raised the largest hay crop in 1890.

COUNTIES.	WILD HAY.	CULTIVATED HAY.	
	Tons.	Acres.	Tons.
Brown.....	51,592		
Faribault.....	122,472		
Freeborn.....	94,709		
Kandiyohi.....	74,532		
Polk.....	72,733		
Pope.....	92,199		
Sibley.....	54,070		
Stearns.....	60,204		
Swift.....	51,321		
Yellow Medicine.....	52,780		
Dakota.....		22,730	25,448
Dodge.....		18,084	25,460
Fillmore.....		35,924	38,093
Goodhue.....		32,088	45,620
Houston.....		21,010	27,297
Mower.....		45,073	47,858
Olmsted.....		26,058	33,743
Winona.....		24,605	28,820

The following counties raised the largest hay crop in 1889.

COUNTIES.	WILD HAY.	CULTIVATED HAY.	
	Tons.	Acres.	Tons.
Faribault, estimated.....	50,000		
Freeborn, estimated.....	50,000	7,000	10,000
Kandiyohi, estimated.....	98,000		
Nicollet, estimated.....	50,000		
Nobles, estimated.....	50,000		
Pope, estimated.....	60,000		
Redwood, estimated.....	55,000		
Renville, estimated.....	70,000		
Swift, estimated.....	60,000		
Goodhue, estimated.....		50,000	60,000
Mower, estimated.....		35,000	35,400
Winona, estimated.....		29,955	59,910
Brown, by assessor.....	57,099		
Cottonwood, by assessor.....	40,817		
Freeborn, by assessor.....	60,751		
Kandiyohi, by assessor.....	60,220		
Lac qui Parle, by assessor.....	40,560		
Martin, by assessor.....	43,015		
Nicollet, by assessor.....	45,719		
Polk, by assessor.....	47,475		
Pope, by assessor.....	45,278		
Redwood, by assessor.....	42,138		
Renville, by assessor.....	63,551		
Sibley, by assessor.....	47,812		
Stearns, by assessor.....	43,198		
Swift, by assessor.....	61,684		
Yellow Medicine, by assessor.....	47,076		
Fillmore, by assessor.....		31,804	38,145
Goodhue, by assessor.....		36,337	42,632
Mower, by assessor.....		37,813	36,823
Olmsted, by assessor.....		30,485	35,368
Winona, by assessor.....		28,281	35,599

Following is a list of the counties raising the largest hay crop in 1887.

COUNTIES.	WILD HAY.	CULTIVATED HAY.	
	Tons.	Acres.	Tons.
Brown.....	51,236		
Faribault.....	88,881		
Freeborn.....	88,826		
Jackson.....	54,228		
Kandiyohi.....	80,144		
Martin.....	88,494		
Nobles.....	54,270		
Polk.....	88,180		
Pope.....	50,167		
Renville.....	86,725		
Stearns.....	50,326		
Swift.....	55,003		
Blue Earth.....		9,073	26,184
Dakota.....		23,011	25,006
Dodge.....		19,053	20,033
Goodhue.....		21,611	23,835
Mower.....		33,247	34,842
Olmsted.....		26,571	25,579

FLAX.

TABLE XI.—FLAX IN 1891.

Acres.....	402,612
Bushels.....	4,378,300
Acreage 1892.....	243,618

The acreage and bushels of flax seed for the past nineteen years, from 1872, are as follows:

YEARS.	Acreage.	Bushels.
1872.....	12,129	71,752
1873.....	12,114	100,853
1874.....	19,715	109,043
1875.....	16,644	125,982
1876.....	8,191	44,243
1877.....	5,547	40,838
1878.....	2,183	16,982
1879.....	12,966	99,378
1880.....	40,004	397,190
1881.....	73,640	433,517
1882.....	79,547	762,117
1883.....	70,880	824,281
1884.....	126,845	1,486,527
1885.....	214,873	2,246,077
1886.....	235,406	1,729,843
1887.....	167,284	1,318,121
1888, estimated.....	157,540	1,647,622
1889, by assessors.....	255,602	2,293,217
1890.....	409,141	3,974,681
1891.....	402,612	4,378,300

The largest crop of flax was raised in 1891, in the following counties:

COUNTIES.	Acres.	Bushels.
Brown.....	11,854	143,335
Cottonwood.....	14,872	125,762
Dodge.....	14,751	156,617
Fillmore.....	21,188	346,982
Goodhue.....	15,123	148,300
Lincoln.....	14,793	107,875
Martin.....	21,652	217,885
Mower.....	32,759	405,616
Olmsted.....	15,756	209,617
Redwood.....	13,073	126,794
Renville.....	11,429	121,718
Rock.....	10,026	116,593
Watsonwan.....	13,123	150,557

The largest crop of flax was raised in 1890 in the following counties:

COUNTIES.	Acres.	Bushels.
Blue Earth.....	11,485	134,840
Brown.....	8,716	97,173
Cottonwood.....	14,104	133,018
Dakota.....	15,412	110,325
Dodge.....	21,221	215,465
Faribault.....	31,206	221,784
Fillmore.....	17,066	187,308
Freeborn.....	6,901	90,809
Goodhue.....	9,096	111,120
Jackson.....	13,669	119,909
Lincoln.....	13,300	104,006
Martin.....	23,160	214,738
Mower.....	41,906	460,063
Murray.....	14,783	141,714
Nobles.....	15,609	123,300
Olmsted.....	13,496	147,198
Rock.....	13,505	114,306
Watonwan.....	13,184	168,455

The largest crop of flax was raised in the following counties in the year 1889:

COUNTIES.	Acres.	Bushels.
Jackson, estimated.....	9,871	100,000
Martin.....	30,000	300,000
Mower.....	22,000	220,000
Watonwan.....	7,500	112,500
Blue Earth, by assessor.....	10,288	114,911
Dodge.....	11,386	121,129
Jackson.....	13,790	106,709
Mower.....	35,627	372,451
Nobles.....	19,937	128,560
Rock.....	14,302	104,084
Watonwan.....	10,828	111,718

The largest crop of flax was produced in the following counties in 1887:

COUNTIES.	Acres.	Bushels.
Jackson.....	12,048	87,868
Mower.....	16,461	150,531
Murray.....	11,772	88,164
Nobles.....	18,913	130,110
Rock.....	16,723	115,158
Watonwan.....	8,942	74,290

IMPROVED LANDS.

TABLE XII.—TOTAL CULTIVATED ACREAGE, 1891.

Total cultivated acreage, 1891.....	6,360,154
Total cultivated acreage, 1892.....	6,979,674

Summary of cultivated acreage for twelve years from 1880:

Years.	Acreage cultivated.
1880.....	4,447,845
1881.....	4,615,781
1882.....	4,367,675
1883.....	4,685,735
1884.....	5,622,457
1885.....	5,707,818
1886.....	6,307,281
1887.....	6,037,455
1888.....	6,362,241
1889—estimated.....	6,134,132
1890—by assessors.....	5,958,004
1890.....	6,509,322
1891.....	6,360,154

The following counties had the largest total cultivated acreage in 1891:

Counties.	Acreage.
Fillmore.....	233,268
Goodhue.....	233,305
Lac qui Parle.....	168,620
Mower.....	189,738
Olmsted.....	163,174
Renville.....	152,560
Stearns.....	166,615
Winona.....	152,060

The largest cultivated acreage for 1890 is found in the following counties:

Counties.	Acreage.
Faribault.....	222,453
Goodhue.....	209,848
Polk.....	264,923

The largest cultivated acreage for 1889 is found in the following counties:

Counties.	Acreage.
Fillmore, estimated.....	224,381
Goodhue, estimated.....	235,850
Polk, estimated.....	209,200
Blue Earth, by assessors.....	165,860
Fillmore, by assessor.....	186,080
Goodhue, by assessor.....	208,424
Mower, by assessor.....	161,913
Polk, by assessor.....	264,630
Renville, by assessor.....	164,435

The following counties had the largest total cultivated acreage in 1887 and 1888:

COUNTIES.	Acres. 1887.	Acres. 1888.
Blue Earth.....	143,765	144,612
Dakota.....	159,687	157,303
Dodge.....	103,000	88,944
Faribault.....	153,381	138,679
Fillmore.....	218,273	216,948
Freeborn.....	128,970	131,366
Goodhue.....	194,312	195,222
Houston.....	104,182	109,674
Mower.....	172,978	169,679
Norman.....	106,853	112,621
Olmsted.....	179,468	182,857
Otter Tail.....	132,237	139,335
Polk.....	206,807	230,022
Renville.....	135,242	126,132
Rice.....	112,261	114,587
Sibley.....	101,771	107,110
Stearns.....	147,080	163,790
Wabasha.....	115,832	117,007
Winona.....	156,294	155,781

GRASS SEEDS.

TABLE XIII.—GRASS SEEDS, 1891.

Timothy seed produced, bushels.....	469,131
Clover seed produced, bushels.....	16,632

The product of this crop since 1871 has been as follows:

YEARS.	Timothy. bushels.	Clover. bushels.
1871	15,828	2,588
1872	15,228	2,248
1873	40,022	1,546
1874	46,268	5,661
1875	31,576	4,881
1876	83,879	5,041
1877	42,559	8,807
1878	24,228	7,558
1879	30,876	18,480
1880	60,940	8,371
1881	96,214	27,715
1882	200,809	6,980
1883	281,744	21,166
1884	286,784	20,828
1885	288,620	43,335
1886	410,884	107,508
1887	275,114	88,480
1888, estimated	234,228	89,039
1889, by assessors	430,304	66,413
1890	452,562	19,694
1891	469,131	16,632

The following counties produced the largest crop of timothy and clover seed in 1891:

COUNTIES.	Timothy. bushels.	Clover. bushels.
Dodge	27,098	.....
Fillmore	55,133	3,162
Mower	195,138	.....
Olmsted	40,415	.....
Rice	.....	1,537
Winona	17,350	.....

The following counties produced the largest crop of timothy and clover seed in 1890:

COUNTIES.	Timothy. bushels.	Clover. bushels.
Dodge	45,799	.....
Fillmore	80,565	5,230
Mower	107,250	3,560
Olmsted	74,737	1,310
Winona	25,701	952
Dakota	.....	.....

The following counties produced the largest crop of timothy and clover seed in 1889:

COUNTIES.	Timothy. bushels.	Clover. bushels.
Fillmore, estimated	32,197	4,128
Mower, estimated	50,000	5,000
Norman, estimated	30,000	2,000
Olmsted, estimated	49,704	5,235
Steele, estimated	.....	2,000
Washington, estimated	.....	5,000
Winona, estimated	24,000	3,000
Dodge, by assessors	38,044	5,086
Fillmore, by assessors	63,785	7,511
Mower, by assessors	135,405	10,579
Olmsted, by assessors	72,502	6,626
Winona, by assessors	25,122	5,117

The following counties produced the largest crop of timothy and clover seed in 1887:

COUNTIES.	Timothy. bushels.	Clover. bushels.
Dodge.....	35,146	
Fillmore.....	37,806	4,497
Mower.....	55,719	5,329
Olmsted.....	55,226	5,235
Winona.....	12,631	
Dakota.....		2,213
Rice.....		2,479
Steele.....		2,311

APPLES.

TABLE XIV.—APPLES IN 1891.

Apple trees growing, 1891.....	348,357
Apple trees bearing, 1891.....	145,285
Apples produced, bushels, 1891.....	107,975

Summary of apple trees growing, apple trees bearing and bushels produced for the last eighteen years.

YEARS.	Apple trees growing.	Apple trees bearing.	Apples, bushels.
1874.....	3,742,479	114,474	36,082
1875.....	889,874	149,039	55,555
1876.....	798,258	153,138	111,538
1877.....	1,151,279	156,189	45,745
1878.....	1,219,324	203,492	89,922
1879.....	1,121,779	269,186	124,261
1880.....	1,160,240	299,319	147,803
1881.....	960,889	275,796	158,058
1882.....	895,114	299,981	176,088
1883.....	889,979	360,451	120,736
1884.....	887,031	278,540	173,357
1885.....	779,669	301,455	150,006
1886.....	474,258	188,965	123,199
1887.....	351,531	142,100	95,198
1888.....	358,748	136,034	
1889, estimated.....	432,044	119,443	77,407
1889, by assessors.....	361,538	117,300	64,520
1890.....	361,243	141,345	118,660
1891.....	348,357	145,285	107,975

The following counties produced the largest crop of apples in 1891:

COUNTIES.	Trees growing.	Trees bearing.	Apples, bushels.
Fillmore.....	29,710	17,579	9,818
Houston.....	13,301	7,715	10,334
Olmsted.....	18,260	10,932	8,408
Winona.....	25,523	10,342	14,220

The following counties produced the most apples in 1890:

COUNTIES.	Trees growing.	Trees bearing.	Apples, bushels.
Goodhue.....	21,166	10,415	10,454
Olmsted.....	15,871	10,185	9,529
Winona.....	22,564	10,965	12,444

The following counties produced the most apples in 1889:

COUNTIES.	Trees growing.	Trees bearing.	Apples. bushels.
Dakota, estimated	25,850	18,600	5,680
Houston, estimated	8,100	4,700	5,000
Olmsted, estimated	20,643	11,880	11,655
Winona, estimated	17,040	10,577	15,865
Fillmore, by assessor	20,456	10,890	7,925
Houston, by assessor	8,570	4,268	6,411
Olmsted, by assessor	23,095	8,680	5,955
Winona, by assessor	22,151	12,285	12,151

The best apple producing counties in 1887 were:

COUNTIES.	Trees growing.	Trees bearing.	Apples. bushels.
Fillmore	23,060	9,602	6,727
Goodhue	17,145	7,309	5,747
Olmsted	20,643	11,880	11,655
Wabasha	9,218	5,785	5,593
Winona	17,038	7,963	9,980

GRAPES.

TABLE XV.—GRAPES IN 1891.

Number of bearing vines, 1891	63,751
Pounds produced, 1891	320,408

Summary of grape vines and pounds produced for the last eighteen years, from 1874.

YEARS.	Grape vines in bearing.	Grapes. pounds.
1874	36,145	114,922
1875	45,208	122,237
1876	36,060	69,353
1877	40,873	101,978
1878	40,748	128,768
1879	63,427	135,086
1880	52,777	141,731
1881	49,327	200,616
1882	62,446	203,727
1883	59,226	152,678
1884	64,939	259,404
1885	173,367	198,309
1886	89,876	206,200
1887	76,474	235,529
1888	76,425	.....
1889, estimated	88,250	661,109
1889, by assessors	82,004	120,874
1890	66,990	185,004
1891	63,751	320,408

The following counties produced the most grapes in 1891.

COUNTIES.	Vines bearing.	Grapes. pounds.
Blue Earth	931	4,475
Carver	3,466	9,945
Fillmore	1,248	4,614
Goodhue	1,659	8,835
Hennepin	6,408	35,836
Houston	14,976	132,531
Olmsted	3,170	4,517
Washington	1,744	4,016
Winona	3,413	14,506

The most grapes in 1890 were produced in the following counties:

COUNTIES.	Vines bearing.	Grapes pounds.
Blue Earth.....	1,015	9,086
Carver.....	2,980	6,885
Dakota.....	2,498	6,025
Hennepin.....	10,885	30,335
Houston.....	16,670	55,504
Scott.....	2,005	4,088
Winona.....	5,998	9,460

The most grapes in 1889 were produced in the following counties:

COUNTIES.	Vines bearing.	Grapes pounds.
Blue Earth, estimated.....	6,000	14,000
Hennepin, estimated.....	80,000	50,000
Houston, estimated.....	13,400	13,400
Olmsted, estimated.....	2,804	10,430
Winona, estimated.....	3,790	10,000
Hennepin, by assessors.....	12,242	24,415
Houston, by assessors.....	12,146	37,817

The following counties produced the most grapes in 1887:

COUNTIES.	Vines bearing.	Grapes pounds.
Blue Earth.....	5,980	12,000
Dakota.....	3,364	14,147
Hennepin.....	13,700	35,985
Houston.....	10,850	38,549
Olmsted.....	2,804	10,430
Scott.....	2,549	11,108
Washington.....	3,533	10,320
Winona.....	3,791	12,925

MISCELLANEOUS.

TOBACCO.

TABLE XV.—TOBACCO IN 1891.

Pounds produced..... 49,591

The product of this crop since 1868 has been as follows:

YEARS.	POUNDS.	YEARS.	POUNDS.
1868.....	5,998	1880.....	48,437
1869.....	11,289	1881.....	79,631
1870.....	30,573	1882.....	62,850
1871.....	37,060	1883.....	14,744
1872.....	42,788	1884.....	47,472
1873.....	28,224	1885.....	64,066
1874.....	22,557	1886.....	65,920
1875.....	41,679	1887.....	28,931
1876.....	39,733	1888—estimated.....	13,950
1877.....	33,909	1889—by assessors.....	27,689
1878.....	75,634	1890.....	33,621
1879.....	65,089	1891.....	49,591

FARMS.

TABLE XVI.—FARMS, 1892.

Number of farms 92,917
Of which are new 1,317

Total numbers of farms from 1880 to 1892:

YEARS.	New farms during year.	Total No. of farms.
1880.....	6,823	74,898
1881.....	1,758	81,060
1882.....	1,349	79,972
1883.....	1,863	80,596
1884.....	1,809	80,564
1885.....	1,880	85,693
1886.....	1,592	98,492
1887.....	1,056	98,247
1888.....	1,879	94,458
1889.....	1,043	98,501
1890.....	1,207	100,622
1892.....	1,317	92,917

The largest numbers of farms in 1892 were found in the following counties:

Douglas 1,882
Mower 1,830
Olmsted 1,822
Rice 1,856
Stearns 2,148
Winona 1,878
Wright 1,967

The largest numbers of farms in 1891, were found in the following counties:

Blue Earth.....	2,809
Faribault.....	2,340
Hennepin.....	2,346
Mower.....	2,296
Otter Tail.....	2,961
Polk.....	4,444
Rice.....	2,195
Stearns.....	2,682
Wright.....	2,871

The largest number of farms in 1890, were to be found in the following counties:

Blue Earth.....	2,864
Faribault.....	2,349
Fillmore.....	2,833
Freeborn.....	2,131
Goodhue.....	2,137
Hennepin.....	2,335
Mower.....	2,296
Otter Tail.....	2,966
Polk.....	3,865
Rice.....	2,181
Stearns.....	2,699

The largest number of farms in 1888, were to be found in the following counties:

Blue Earth.....	2,325
Faribault.....	2,347
Fillmore.....	2,833
Goodhue.....	2,137
Hennepin.....	2,341
Mower.....	2,133
Otter Tail.....	2,941
Polk.....	3,517
Rice.....	2,108
Stearns.....	2,615

DAIRY PRODUCTS.

TABLE XVII.—COWS AND DAIRY PRODUCTS IN 1891.

(From assessors' report.)

Number of milch cows.....	424,881
Pounds of butter produced.....	27,203,945
Pounds of cheese produced.....	1,374,535
Number of milch cows, 1892.....	412,230

Summary of dairy products for the past twenty-one years:

YEARS.	Number of cows.	Pounds of butter.	Pounds of cheese.
1871.....	106,016	7,356,768	469,147
1872.....	135,691	8,823,630	772,680
1873.....	155,454	10,140,315	1,031,510
1874.....	169,618	10,916,942	1,050,238
1875.....	176,278	12,029,371	1,006,980
1876.....	185,149	12,348,971	1,052,348
1877.....	200,379	13,443,195	829,075
1878.....	228,443	14,873,740	1,602,551
1879.....	225,513	15,639,069	586,448
1880.....	227,955	15,693,283	417,994
1881.....	221,218	16,062,020	522,456
1882.....	238,547	17,136,788	335,793
1883.....	288,896	20,525,357	615,497
1884.....	324,385	24,053,631	334,694
1885.....	339,933	24,495,074	850,843
1886.....	362,536	27,953,028	1,304,329
1887.....	392,027	28,117,172	1,074,251
1888.....	416,113	.....	.....
1889.....	412,036	29,165,137	1,274,076
1890.....	473,304	32,218,810	1,385,241
1891.....	424,881	27,203,945	1,374,535

Number of cheese factories, 1892.....	53
Number of creameries, 1892.....	152

SHEEP AND WOOL.

TABLE XVIII.—SHEEP AND WOOL FOR 1891 AND 1892.

(From assessors' report.)

Number of sheep sheared, fall 1891.....	128,756
Wool, pounds, fall 1891.....	668,550
Number of sheep sheared, spring 1892.....	248,177
Wool, pounds, spring 1892.....	1,265,161

BEEES, HONEY AND MAPLE SYRUP.

TABLE XIX.—BEEES, HONEY AND MAPLE SYRUP IN 1891 AND 1892.

Number of hives, 1891.....	19,063
Number of pounds of honey, 1891.....	381,247
Gallons syrup, 1892.....	11,242
Pounds sugar, 1892.....	13,840

Comparative table of bees and honey for nineteen years.

YEARS.	Hives, No. of.	Honey, pounds.
1872.....	13,704	232,948
1873.....	10,376	134,276
1874.....	7,843	90,296
1875.....	7,134	108,673
1876.....	7,740	101,858
1877.....	10,835	213,768
1878.....	15,105	253,221
1879.....	16,261	208,018
1880.....	14,020	221,255
1881.....	9,287	144,162
1882.....	9,003	166,999
1883.....	10,744	254,964
1884.....	13,418	223,943
1885.....	11,948	243,326
1886.....	14,358	341,047
1887.....	13,300	210,593
1888.....	22,159	746,453
1890.....	20,058	221,333
1891.....	19,063	331,247

The following table will show maple sugar and syrup produced during eighteen years.

YEARS.	Syrup, gallons.	Sugar, pounds.
1874.....	17,256	145,285
1875.....	31,536	151,215
1876.....	10,400	74,022
1877.....	6,182	18,297
1878.....	13,588	52,723
1879.....	10,670	58,462
1880.....	12,449	47,712
1881.....	13,418	49,577
1882.....	12,923	54,512
1883.....	11,633	47,697
1884.....	16,771	35,667
1885.....	11,949	28,964
1886.....	11,297	24,076
1887.....	11,468	12,740
1888.....	8,373	8,478
1890.....	17,195	23,430
1891.....	8,855	16,289
1892.....	11,242	13,840

POPULATION.

TABLE XX.—POPULATION IN MINNESOTA, 1890, AND PRIOR YEARS.

Total population 1890.....	1,301,826
" " 1885.....	1,117,798
" " 1880.....	780,733
" " 1875.....	597,407
" " 1870.....	459,706
" " 1865.....	250,049
" " 1860.....	172,023
" " 1850.....	6,077

HORSES AND CATTLE.

TABLE XXI.--HORSES AND CATTLE, 1879—1891.

(From returns made to the state auditor for taxation.)

YEARS.	Horses, Mules and Asses.			Cattle.			
	One year old.	Two years old.	Three years old and over.	Under three yrs. old.	Cows all ages.	All other cattle 3 years old and over.	Cattle—Total of all ages, including milch cows.
1879.....				161,266	268,777	126,671	557,914
1880.....				153,753	274,479	121,955	570,210
1881.....				261,965	266,678	55,910	584,573
1882.....				272,577	272,631	49,536	594,794
1883.....				290,936	301,688	52,716	645,402
1884.....				304,526	317,968	50,713	673,299
1885.....	34,414	30,234	271,606	364,371	350,716	51,435	775,522
1886.....	35,236	33,207	292,576	397,455	372,018	35,502	904,975
1887.....	40,425	38,728	284,612	470,269	435,119	68,138	973,526
1888.....	43,660	42,020	302,324	496,399	465,530	78,680	1,040,599
1889.....	50,389	79,451	231,335	440,825	554,269	56,362	1,051,156
1890.....	55,634	53,286	352,533	456,654	554,763	53,812	1,065,229
1892.....	58,731	57,782	372,999	430,629	539,075	54,027	1,023,731

SHEEP AND HOGS

TABLE XXII.—SHEEP AND HOGS, 1880—1891.

(From returns made to state auditor for taxation.)

YEARS.	Sheep.	Hogs.
1880.....	250,813	216,913
1881.....	267,215	238,067
1882.....	258,415	279,240
1883.....	269,191	309,922
1884.....	280,486	342,328
1885.....	295,659	370,639
1886.....	296,886	337,115
1887.....	295,574	296,525
1888.....	288,260	285,727
1889.....	297,117	364,379
1890.....	337,078	357,650
1892.....	359,223	288,819

AGRICULTURAL STATISTICS BY COUNTIES.

TABLE I.—WHEAT.

Wheat crop of Minnesota for 1891 and acreage of 1892 by counties.

COUNTIES.	1891			1892
	Acres.	Bushels.	Yield per acre.	Acres.
Altkin.....	37	982	26 50	103
Anoka.....	2,001	32,561	16.30	3,965
Becker.....	16,229	307,327	18.90	18,017
Benton.....	13,079	218,566	16.70	14,484
Big Stone.....	20,840	345,537	16.60	23,556
Blue Earth.....	30,001	522,814	17.40	36,180
Brown.....	73,471	1,246,705	17.00	80,453
Carver.....	39,758	938,646	23.60	40,569
Chippewa.....	36,165	835,759	23.10	54,064
Chisago.....	7,466	132,478	17.70	8,447
Clay.....				137,857
Cottonwood.....	45,879	825,831	18.00	49,654
Dakota.....	1,267	24,138	18.80	2,636
Dodge.....	7,596	118,828	15.60	10,092
Douglas.....	68,268	1,490,327	21.80	74,561
Fillmore.....	13,723	169,040	13.80	15,398
Freeborn.....	94,414	612,069	17.80	43,476
Goodhue.....	53,529	894,124	16.70	58,303
Grant.....	49,279	551,517	11.20	57,817
Hennepin.....	20,814	443,858	21.30	25,360
Houston.....	12,102	181,562	15.00	13,571
Hubbard.....	10,000	225,000	22.50	11,000
Isanti.....	5,194	73,872	14.20	6,645
Jackson.....	5,624	92,094	16.40	6,587
Kanabec.....	860	5,192	14.80	480
Kandiyohi.....	74,070	1,217,296	16.40	78,551
Lac qui Parle.....	125,000	2,500,000	20.00	140,000
Lake.....	1	30	30.00	
Le Sueur.....	10,877	223,918	20.60	10,826
Lincoln.....	32,856	515,750	15.70	45,218
Lyon.....	21,319	414,505	19.40	25,887
McLeod.....	50,354	1,101,211	21.90	54,341
Marshall.....	87,113	1,736,086	19.90	71,967
Martin.....	24,569	378,894	15.40	35,266
Meeker.....	71,406	1,071,090	15.00	71,406
Mille Lacs.....				1,106
Morrison.....	24,320	396,737	16.30	27,046
Mower.....	8,353	132,236	15.80	9,195
Nicollet.....	69,745	1,275,975	18.30	70,220
Nobles.....	41,066	692,172	16.90	56,861
Norman.....	94,803	1,774,286	18.70	96,735
Olmsted.....	15,604	256,042	16.40	17,963
Otter Tail.....	74,264	1,505,426	20.30	79,664
Pine.....	405	6,624	16.40	563
Ramsey.....	576	12,966	22.50	1,374
Redwood.....	64,564	1,150,186	17.80	82,301
Renville.....	106,474	1,773,664	16.70	110,120
Rice.....	45,814	864,779	18.80	49,820
Rock.....	33,477	644,285	19.20	44,191
St. Louis.....	3	24	8.00	4
Scott.....	19,135	443,634	23.20	23,450
Sherburne.....	6,359	75,146	11.80	7,025
Sibley.....	84,003	1,590,813	18.90	87,251
Stearns.....	117,299	1,948,391	16.60	122,936
Steele.....	31,617	539,609	17.10	35,640
Stevens.....	44,040	803,220	18.20	50,550
Swift.....	63,184	1,078,744	17.10	74,033
Todd.....	23,952	448,938	18.70	29,262
Traverse.....	55,147	728,021	13.20	61,289
Wabasha.....	7,701	107,326	13.90	7,304
Wadena.....	13,582	241,609	17.80	15,813
Waseca.....	28,855	467,020	16.20	31,021
Washington.....	15,120	249,789	16.50	19,948
Watsonwan.....	34,752	573,711	16.50	44,901
Wilkin.....	29,078	534,331	18.40	37,483
Winona.....	23,029	362,064	15.70	21,321
Wright.....	36,969	834,651	22.50	42,166
Yellow Medicine.....	73,484	1,585,007	21.60	89,873
Unreported towns and counties estimated.....	587,868	10,641,404		693,931
Totals.....	2,939,343	53,207,022	18.10	3,469,656

TABLE II.—OATS.

Oat crop of Minnesota for 1891 and average of 1892, by counties.

COUNTIES.	1891			1892.
	Acres.	Bushels.	Yield per acre.	Acres.
Aitkin.....	470	16,980	37.70	626
Anoka.....	5,283	161,256	30.50	6,921
Becker.....	3,733	127,347	34.10	3,901
Benton.....	5,655	183,405	32.40	5,988
Big Stone.....	4,839	131,984	27.30	5,304
Blue Earth.....	18,374	672,978	36.60	19,092
Brown.....	26,714	689,852	25.80	20,898
Carver.....	7,867	410,084	52.10	7,630
Chippewa.....	9,640	289,553	30.00	10,905
Chisago.....	6,433	254,778	39.60	7,759
Clay.....				28,492
Cottonwood.....	26,451	903,584	35.50	26,669
Dakota.....	7,737	207,547	26.80	7,616
Dodge.....	22,390	580,496	25.90	15,708
Douglas.....	13,693	530,564	38.70	14,692
Fillmore.....	58,729	1,985,224	33.80	63,879
Freeborn.....	27,326	1,005,364	36.80	36,776
Goodhue.....	44,789	1,584,374	35.40	41,629
Grant.....	6,604	206,952	31.30	8,191
Hennepin.....	21,188	838,386	39.60	22,706
Houston.....	32,342	854,006	26.40	35,465
Hubbard.....	1,800	45,000	25.00	1,600
Isanti.....	7,496	209,738	28.00	8,498
Jackson.....	3,722	113,332	30.40	3,599
Kanabec.....	264	8,226	31.20	526
Kandiyohi.....	15,506	451,918	29.10	15,793
Lac qui Parle.....	25,000	800,000	32.00	27,000
Lake.....	8	130	43.30	3
Le Seur.....	1,732	65,093	37.60	1,685
Lincoln.....	10,591	396,814	29.20	12,137
Lyon.....	6,655	237,326	35.40	6,826
McLeod.....	10,528	476,448	45.40	10,777
Marshall.....	11,061	369,490	33.40	9,769
Martin.....	29,908	1,106,683	37.10	33,731
Meeker.....	22,560	1,128,000	50.00	22,560
Millie Lacs.....				1,640
Morrison.....	8,085	235,195	29.10	8,704
Mower.....	55,076	2,106,084	38.20	60,167
Nicollet.....	17,770	658,760	37.19	17,950
Nobles.....	29,978	994,249	33.20	33,134
Norman.....	19,103	622,612	32.60	18,180
Olmsted.....	32,420	1,384,552	42.70	33,232
Otter Tail.....	17,228	531,414	30.80	17,207
Pine.....	422	13,514	32.00	644
Ramsey.....	3,304	131,847	39.90	3,519
Redwood.....	20,885	600,236	28.70	22,773
Renville.....	20,138	762,835	37.90	21,694
Rice.....	26,067	965,774	39.10	26,378
Rock.....	25,472	999,057	39.20	27,199
St. Louis.....	231	1,929	8.40	316
Scott.....	5,763	223,870	38.90	7,084
Sherburne.....	5,393	97,193	18.00	6,016
Sibley.....	17,264	765,132	44.30	18,898
Stearns.....	27,246	821,148	30.10	28,186
Steele.....	20,239	722,204	35.70	20,247
Stevens.....	17,045	584,700	30.40	20,850
Swift.....	18,299	476,991	26.10	20,501
Todd.....	5,232	160,585	30.70	6,514
Traverse.....	9,109	243,859	26.80	11,218
Wabasha.....	9,140	242,815	26.60	9,772
Wadena.....	3,576	89,091	24.90	3,772
Waseca.....	10,250	382,554	37.30	10,994
Washington.....	19,895	711,448	35.80	19,284
Watsonwan.....	20,811	651,408	31.30	21,650
Wilkin.....	6,135	215,923	35.20	6,783
Winona.....	28,914	985,171	34.10	30,656
Wright.....	7,924	317,808	40.10	8,167
Yellow Medicine.....	14,507	543,970	37.50	17,335
Unreported towns and counties estimated.	254,746	8,800,187		276,506
Total.....	1,273,730	44,000,937	34.50	1,382,531

TABLE III.—CORN.

Corn crop of Minnesota for 1891, and acreage of 1892, by counties.

COUNTIES.	1891.		1892.	
	Acres.	Bushels.	Yield per acre.	Acres.
Aitkin.....	135	5,261	39.00	107
Anoka.....	5,882	139,090	23.60	5,290
Becker.....	84	2,541	30.30	123
Benton.....	2,679	59,445	22.20	2,038
Big Stone.....	678	14,175	20.90	648
Blue Earth.....	14,986	483,460	32.30	14,194
Brown.....	19,694	400,232	20.30	13,828
Carver.....	11,518	410,884	35.70	11,770
Chippewa.....	2,641	44,039	16.70	2,218
Chisago.....	2,314	54,366	23.50	2,360
Clay.....				127
Cottonwood.....	6,120	186,483	30.50	3,888
Dakota.....	1,878	29,247	15.60	1,676
Dodge.....	9,390	201,874	21.50	6,325
Douglas.....	2,746	87,018	31.60	2,404
Fillmore.....	42,866	1,365,027	31.70	41,315
Freeborn.....	21,107	572,637	27.10	21,100
Goodhue.....	22,423	611,720	27.30	20,497
Grant.....	288	4,228	14.90	142
Hennepin.....	15,837	459,132	29.00	14,912
Houston.....	27,066	793,692	29.30	25,834
Hubbard.....	300	9,000	30.00	200
Isanti.....	4,527	102,834	22.70	4,295
Jackson.....	1,915	41,113	21.50	1,688
Kanabec.....	50	1,467	29.10	42
Kandiyohi.....	4,040	98,766	24.40	3,601
Lac qui Parle.....	11,000	222,000	20.00	10,000
Lake.....	3	106	35.30	
Le Sueur.....	2,969	104,084	35.20	2,792
Lincoln.....	3,367	45,967	13.90	3,943
Lyon.....	4,272	93,430	21.90	3,680
McLeod.....	7,069	259,215	36.70	7,210
Marshall.....	91	1,070	11.80	126
Martin.....	20,133	609,716	30.30	18,215
Meeker.....	6,660	264,400	39.70	6,660
Mille Lacs.....				1,149
Morrison.....	4,208	118,309	28.10	4,119
Mower.....	18,065	497,647	27.50	11,548
Nicollet.....	14,975	505,670	33.80	15,785
Nobles.....	15,716	298,080	19.00	12,367
Norman.....	79	1,463	18.50	61
Olmsted.....	22,658	649,677	28.70	24,095
Otter Tail.....	3,064	74,204	24.20	1,879
Pine.....	101	2,694	26.70	101
Ramsey.....	941	43,135	45.80	1,089
Redwood.....	10,176	214,219	21.10	10,258
Renville.....	10,893	260,455	23.90	12,031
Rice.....	16,290	506,175	31.10	17,004
Rock.....	19,301	488,755	25.30	16,016
Scott.....	6,644	219,465	33.00	7,870
Sherburne.....	8,367	118,882	14.20	8,514
Sibley.....	18,403	473,055	35.80	14,177
Stearns.....	11,926	263,245	22.10	11,306
Steele.....	16,884	452,543	26.80	13,217
Stevens.....	1,225	28,540	23.30	405
Swift.....	2,438	55,101	22.60	2,271
Todd.....	1,887	48,905	25.90	1,565
Traverse.....	1,210	20,174	16.70	889
Wabasha.....	6,730	193,275	28.70	6,595
Wadena.....	1,398	35,022	25.10	1,046
Waseca.....	9,315	339,660	36.50	9,619
Washington.....	9,014	259,592	28.80	8,284
Watsonwan.....	13,808	313,633	22.70	11,896
Wilkin.....	72	870	12.10	90
Winona.....	20,440	633,207	31.00	19,156
Wright.....	9,474	304,112	32.10	10,177
Yellow Medicine.....	7,241	123,794	17.10	6,995
Unreported towns and counties, estimated	138,659	3,580,316		128,740
Totals.....	603,295	18,901,583	27.20	648,702

TABLE IV.—BARLEY.

Barley crop of Minnesota for 1891 and acreage of 1892 by counties.

COUNTIES.	1891.			1892.
	Acres.	Bushels.	Yield per acre.	Acres.
Aitkin	33	878	26.60	44
Anoka	22	374	17.00	44
Becker	419	14,024	33.50	638
Benton	121	4,028	33.30	227
Big Stone	407	10,901	26.80	579
Blue Earth	2,339	55,588	23.80	2,761
Brown	1,331	30,784	25.00	2,013
Carver	326	11,775	36.10	370
Chippewa	1,222	3,373	25.70	2,342
Chisago	200	4,949	24.70	299
Clay				2,991
Cottonwood	4,982	151,946	30.50	6,931
Dakota	229	7,390	32.30	455
Dodge	14,593	278,922	19.10	13,603
Douglas	770	27,611	35.90	1,330
Fillmore	31,419	716,731	22.80	31,267
Freeborn	6,129	203,206	33.20	13,646
Goodhue	43,632	1,463,611	33.50	56,472
Grant	505	16,580	32.80	365
Hennepin	305	10,148	33.30	504
Houston	3,251	76,608	23.60	4,487
Hubbard	160	5,000	31.30	199
Isanti	38	855	18.20	115
Jackson	1,514	35,013	23.10	2,025
Kanabeo	19	504	26.50	22
Kandiyohi	1,436	37,618	26.20	2,307
Lac qui Parle	1,500	45,000	30.00	3,000
Lake				4
Le Sueur	73	2,766	37.90	69
Lincoln	1,520	40,961	27.00	3,332
Lyon	806	24,443	30.30	1,554
McLeod	599	10,852	33.10	766
Marshall	7,670	235,086	30.70	9,359
Martin	5,476	126,614	21.30	5,836
Millie Lacs				225
Morrison	128	2,880	22.60	311
Mower	31,971	1,169,707	36.60	42,702
Nicollet	1,055	28,000	26.50	1,705
Nobles	12,977	349,509	26.90	21,511
Norman	3,321	130,236	34.10	6,704
Olmsted	38,858	1,183,524	30.50	48,025
Otter Tail	1,460	46,139	31.60	1,855
Pine	116	996	8.60	56
Ramsey	127	4,788	37.70	312
Redwood	1,126	32,297	28.70	2,742
Renville	1,628	47,332	29.10	2,330
Rice	1,187	41,475	34.96	1,829
Rock	15,599	506,114	32.40	24,508
St. Louis	40	606	15.00	57
Scott	323	8,121	25.10	309
Sherburne	58	1,781	29.90	99
Sibley	1,866	57,699	30.90	2,404
Stearns	2,028	62,415	30.70	3,029
Steele	3,379	84,494	25.00	4,059
Stevens	1,555	35,470	22.80	1,660
Swift	1,366	30,454	22.30	2,364
Todd	313	9,224	29.80	498
Traverse	1,723	46,643	27.10	2,524
Wabasha	12,973	332,881	25.70	15,346
Wadena	120	2,640	22.00	166
Waseca	429	12,069	28.10	376
Washington	5,255	162,924	31.00	7,114
Watsonwan	1,681	35,443	21.10	2,258
Wilkin	1,700	50,651	29.60	2,101
Winona	38,741	1,148,432	29.60	47,860
Wright	178	5,541	31.10	224
Yellow Medicine	1,033	30,545	29.60	1,021
Unreported towns and counties, estimated	79,441	2,337,977		104,602
Totals	397,208	11,489,887	29.40	524,012

TABLE V.—RYE.

Rye crop of Minnesota for 1891 and acreage of 1892 by counties.

COUNTIES.	1891.			1892.
	Acres.	Bushels.	Yield per acre.	Acres.
Aitkin.....	11	880	84.50	9
Anoka.....	1,912	26,701	35.40	2,787
Becker.....	67	1,182	17.60	44
Benton.....	1,258	17,744	14.10	1,610
Blue Earth.....	28	780	27.90	44
Brown.....	105	5,658	53.90	99
Carver.....	707	18,800	26.80	1,064
Chippewa.....	23	180	7.80	10
Chisago.....	887	12,815	15.00	907
Clay.....				17
Cottonwood.....	50	805	6.10	
Dakota.....	214	4,196	19.60	252
Dodge.....	908	18,025	19.90	2,260
Douglas.....	64	1,596	24.90	97
Fillmore.....	1,692	27,901	16.50	2,343
Freeborn.....	146	3,083	20.80	411
Goodhue.....	6,859	113,456	17.80	12,492
Grant.....				2
Hennepin.....	833	15,047	18.10	1,213
Houston.....	1,437	18,214	12.70	1,278
Hubbard.....	149	4,001	26.90	87
Isanti.....	2,051	24,591	12.00	2,431
Jackson.....	16	118	7.40	30
Kanabec.....	266	5,116	20.00	180
Kandiyohi.....	18	277	15.40	56
Lake.....				1
Le Sueur.....	8	185	23.10	8
Lincoln.....	209	1,706	8.20	192
Lyon.....	1	20	20.00	
McLeod.....	132	3,273	24.80	185
Marshall.....	258	4,854	18.80	335
Martin.....	109	1,963	18.00	174
Mille Lacs.....				790
Morrison.....	1,356	19,071	14.10	2,315
Mower.....	396	7,069	17.80	622
Nicollet.....	215	6,770	31.50	520
Nobles.....	861	11,280	13.30	1,631
Norman.....	56	1,325	23.70	79
Olmstead.....	1,203	21,219	17.60	2,152
Otter Tail.....	262	5,571	21.30	165
Pine.....	29	478	19.50	51
Ramsey.....	116	2,249	19.40	118
Redwood.....	13	223	17.20	59
Renville.....	50	723	14.50	78
Rice.....	2,420	42,636	17.70	3,648
Rock.....	413	4,769	11.50	375
St. Louis.....	30	318	10.60	44
Scott.....	1,101	20,847	18.90	2,274
Sherburne.....	4,313	51,345	11.90	6,198
Sibley.....	1,034	10,575	10.20	1,065
Stearns.....	1,007	17,476	17.40	1,214
Wheeler.....	2,233	45,938	20.60	3,635
Stevens.....	10	220	22.00	20
Swift.....	41	785	19.10	30
Todd.....	298	5,500	18.50	302
Traverse.....				15
Wabasha.....	592	9,519	16.10	742
Wadena.....	670	11,811	17.40	547
Waseca.....	55	1,283	23.30	112
Washington.....	3,270	64,610	19.80	4,801
Watsonwan.....	48	627	12.90	112
Wilkin.....	56	990	17.70	95
Winona.....	1,954	32,654	16.70	2,920
Wright.....	943	16,256	17.20	1,519
Yellow Medicine.....	42	2,053	48.90	11
Unreported towns and counties, estimated	11,248	187,376		17,451
Totals.....	56,242	936,881	16.60	87,237

TABLE VI.—BUCKWHEAT.

Buckwheat crop of Minnesota for 1891 and acreage of 1892, by counties.

COUNTIES.	1891.			1892.
	Acres.	Bushels.	Yield per acre.	Acres.
Aitkin.....	5	100	20.00	9
Anoka.....	236	3,702	11.00	249
Becker.....	1	60	60.00	.....
Benton.....	212	56	.....	20
Big Stone.....	.....	.....	.....	3
Blue Earth.....	2	60	30.00	.....
Brown.....	11	148	13.50	14
Carver.....	6	182	30.30	3
Chippewa.....	.....	.....	.....	1
Chisago.....	46	745	16.20	41
Clay.....	.....	.....	.....	49
Cottonwood.....	44	900	20.50	14
Dakota.....	112	1,691	15.10	88
Dodge.....	339	3,450	10.20	517
Douglas.....	6	50	10.00	58
Fillmore.....	1,185	12,372	10.50	534
Freeborn.....	59	887	15.10	89
Goodhue.....	292	3,613	12.40	343
Hennepin.....	53	767	14.50	44
Houston.....	300	4,440	14.50	380
Hubbard.....	1	21	21.00	2
Isanti.....	98	1,574	16.10	290
Jackson.....	11	146	13.20	39
Kanabec.....	1	5	5.00	6
Kandiyohi.....	4	40	10.00	.....
McLeod.....	11	254	23.10	1
Marshall.....	6	90	15.00	11
Martin.....	238	1,429	6.00	76
Mille Lacs.....	.....	.....	.....	130
Morrison.....	196	481	2.50	38
Mower.....	746	11,529	15.50	1,011
Nicollet.....	5	40	8.00	15
Nobles.....	109	1,357	12.40	141
Olmsted.....	258	3,727	14.40	308
Otter Tail.....	5	100	20.00	6
Pine.....	9	236	26.20	17
Ramsey.....	38	1,061	27.90	14
Redwood.....	2	50	25.00	4
Renville.....	21	151	7.20	14
Rice.....	207	9,821	47.40	198
Rock.....	24	190	8.00	8
Scott.....	15	134	8.90	7
Sherburne.....	58	486	8.40	61
Sibley.....	36	570	15.80	16
Stearns.....	91	1,046	11.50	55
Steele.....	81	1,139	14.00	31
Stevens.....	75	1,450	19.30	50
Swift.....	4	105	26.20	.....
Todd.....	32	744	23.30	12
Traverse.....	4	70	17.50	.....
Wabasha.....	127	892	7.00	47
Wadena.....	17	268	15.60	36
Waseca.....	30	282	9.40	5
Washington.....	232	1,569	6.80	142
Watonwan.....	43	385	8.50	27
Winona.....	619	7,647	12.40	671
Wright.....	45	614	13.60	22
Yellow Medicine.....	1	12	12.00	1
Unreported towns and counties estimated	1,602	20,479	.....	1,402
Totals.....	8,010	102,395	12.70	7,462

TABLE VII.—POTATOES.

Potato crop of Minnesota for 1891 and acreage of 1892 by counties.

COUNTIES.	1891.		1892.
	Acres.	Bushels.	Acres.
Aitkin.....	199	25,428	217
Anoka.....	2,646	289,142	2,707
Becker.....	282	34,815	253
Benton.....	460	55,686	392
Big Stone.....	101	10,210	106
Blue Earth.....	524	45,015	533
Brown.....	727	44,834	897
Carver.....	1,080	104,225	1,111
Chippewa.....	197	15,227	201
Chisago.....	4,474	562,641	4,616
Clay.....			1,120
Cottonwood.....	471	21,171	515
Dakota.....	257	33,788	307
Dodge.....	367	44,253	311
Douglas.....	869	108,448	911
Fillmore.....	1,628	140,984	1,487
Freeborn.....	2,144	167,633	2,154
Goodhue.....	1,311	138,155	1,328
Grant.....		39,933	243
Hennepin.....	6,418	752,867	6,517
Houston.....	1,367	138,604	1,449
Hubbard.....	100	10,000	100
Isanti.....	4,972	611,973	4,789
Jackson.....	107	6,229	106
Kanabec.....	141	14,010	170
Kandiyohi.....	432	33,510	540
Lac qui Parle.....	1,000	50,000	1,100
Lake.....	7	735	6
Le Seur.....	242	27,136	237
Lincoln.....	424	34,824	427
Lyon.....	149	12,668	170
McLeod.....	723	74,308	734
Marshall.....	647	65,579	376
Martin.....	655	56,939	774
Meeker.....	2,525	227,250	2,525
Millie Lacs.....			586
Morrison.....	788	99,744	739
Mower.....	1,413	171,533	1,679
Nicollet.....	875	87,410	906
Nobles.....	574	60,494	666
Norman.....	504	70,484	460
Olmsted.....	1,074	141,980	1,047
Otter Tail.....	933	112,382	867
Pine.....	263	22,788	221
Ramsey.....	930	117,735	1,070
Redwood.....	468	36,968	484
Renville.....	692	44,299	737
Rice.....	870	74,752	1,160
Rock.....	534	49,872	458
St. Louis.....	297	32,954	342
Scott.....	594	58,050	676
Sherburne.....	764	68,561	724
Sibley.....	1,006	82,299	1,030
Stearns.....	2,257	173,578	2,261
Steele.....	907	102,863	942
Stevens.....	470	45,170	645
Swift.....	456	35,148	427
Todd.....	576	62,157	582
Traverse.....	240	17,499	322
Wabasha.....	557	37,835	711
Wadena.....	331	39,639	312
Waseca.....	638	56,617	606
Washington.....	1,982	249,654	1,734
Watonwan.....	309	23,699	352
Wilkin.....	120	15,153	148
Winona.....	1,804	186,155	1,885
Wright.....	903	123,175	888
Yellow Medicine.....	414	32,750	490
Unreported towns and counties estimated.....	15,590	1,629,655	16,435
Totals.....	77,963	8,148,277	82,178

TABLE VIII.—BEANS.

Bean crop of Minnesota for 1891 and acreage of 1892, by counties.

COUNTIES.	1891.		1892.
	Acres	Bushels.	Acres.
Aitkin.....	87	1,586	92
Anoka.....	236	1,872	211
Becker.....	2	87	1
Benton.....	19	176	24
Big Stone.....			4
Blue Earth.....	10	101	12
Brown.....	14	250	8
Carver.....	8	65	4
Chippewa.....	1	5	5
Chisago.....	70	996	59
Clay.....			13
Cottonwood.....	28	190	
Dakota.....	13	160	3
Dodge.....	13	42	5
Douglas.....	6	63	5
Fillmore.....	41	708	100
Freeborn.....	6	155	19
Goodhue.....	301	3,662	191
Grant.....	449		
Hennepin.....	137	1,319	124
Houston.....	78	961	92
Hubbard.....	2	6	8
Isanti.....	393	2,997	436
Kanabec.....	10	131	11
Kandiyohi.....			1
Lac qui Parle.....	20	500	20
Le Sueur.....	10	85	5
Lincoln.....	1	12	1
Lyon.....	4	22	46
McLeod.....	17	404	3
Marshall.....	8	240	9
Martin.....	19	187	20
Mille Lac.....			80
Morrison.....	163	1,221	45
Mower.....	10	321	26
Nicollet.....	35	330	50
Nobles.....	28	506	24
Norman.....	3	2	3
Olmsted.....	11	202	14
Otter Tail.....	3	81	5
Pine.....	5	68	5
Ramsey.....	13	193	20
Redwood.....	2	31	7
Renville.....	13	68	11
Rice.....	13	350	22
Rock.....	12	228	15
Scott.....	1	10	6
Sherburne.....	81	549	74
Sibley.....	20	352	14
Stearns.....	15	122	15
Steele.....	10	146	28
Stevens.....	48	702	100
Swift.....	1	3	10
Todd.....	20	284	40
Traverse.....	2	53	1
Wabasha.....	1	37	250
Wadena.....	4	68	6
Waseca.....	5	65	6
Washington.....	126	1,243	90
Watouwan.....	10	88	4
Wilkin.....	6	82	3
Winona.....	16	322	24
Wright.....	30	304	23
Yellow Medicine.....	5	54	3
Unreported towns and counties estimated.....	681	6,234	653
Totals.....	3,406	31,172	3,268

TABLE IX.—SUGAR.

Showing cane crop of Minnesota for 1891 and acreage of 1892 by counties.

COUNTIES.	1891.			1892.
	Acres.	Syrup, gallons.	Sugar, pounds.	Acres.
Aitkin.....				3
Anoka.....	64	611		20
Benton.....	4	240		4
Blue Earth.....	27	1,667		44
Brown.....	78	6,350		49
Carver.....	134	12,843		97
Chippewa.....	11	176		8
Chisago.....	9	794		6
Cottonwood.....	10			
Dakota.....	2	108	321	
Dodge.....	4	220		
Douglas.....	2	121		1
Fillmore.....	59	5,382		26
Freeborn.....	11	752		13
Goodhue.....	127	12,966		258
Hennepin.....	70	6,449		47
Houston.....	56	2,810		60
Isanti.....	43	1,208		251
Jackson.....	2	74		101
Kandiyohi.....	3	200	20	1
Le Sueur.....	8	667		5
McLeod.....	47	4,833	7	38
Martin.....	48	3,179		37
Mille Lacs.....				10
Morrison.....	2	162		155
Nicollet.....	135	10,180	140	190
Olmsted.....	14	939		10
Ramsey.....	1	325		1
Redwood.....	1	130		2
Benvenue.....	9	468		7
Rice.....	61	4,774	1,000	32
Scott.....	40	2,426		32
Sherburne.....	14	367		14
Sibley.....	72	6,182	7	69
Stearns.....	22	1,781		20
Steele.....	3	449		1
Swift.....				1
Wabasha.....	1	50		5
Waseca.....	13	1,030		15
Watonwan.....	31	3,425		32
Winona.....	13	698		4
Wright.....	87	8,890	1,010	73
Yellow Medicine.....	1	150		
Unreported towns and counties estimated	334	26,019	626	434
Totals.....	1,673	130,095	3,181	2,171

TABLE X.—CULTIVATED HAY.

Cultivated hay crop of Minnesota for 1891 and acreage of 1892 by counties.

COUNTIES.	1891.		1892.
	Acres.	Tons.	Acres.
Aitkin.....	88	164	150
Anoka.....	2,526	2,560	1,881
Becker.....	1,126	1,631	1,281
Benton.....	979	1,057	837
Big Stone.....	107	144	100
Blue Earth.....	2,240	3,585	3,068
Brown.....	641	1,007	1,343
Carver.....	1,902	2,581	1,910
Chippewa.....	1,195	1,597	1,136
Columbia.....	5,283	6,932	5,080
Clay.....			1,488
Cottonwood.....	3,485	4,406	4,084
Dakota.....	2,925	3,882	2,348
Dodge.....	16,195	23,240	18,658
Douglas.....	2,085	3,078	2,305
Fillmore.....	37,841	49,686	45,130
Freeborn.....	6,708	10,005	9,407
Goodhue.....	43,787	46,881	35,973
Grant.....	522	357	159
Hennepin.....	12,198	11,732	10,482
Houston.....	20,085	25,069	20,446
Hubbard.....	100	120	200
Isanti.....	2,460	2,460	1,851
Jackson.....	153	237	506
Kanabec.....	497	633	274
Kandiyohi.....	1,302	1,897	1,030
Lac qui Parle.....	2,000	4,000	2,500
Lake.....	93	138	94
Le Sueur.....	59	188	31
Lincoln.....	717	696	777
Lyon.....	460	701	441
McLeod.....	1,236	1,609	1,318
Marshall.....	1,480	2,670	1,278
Martin.....	1,087	1,859	1,690
Millie Lacs.....			255
Morrison.....	712	924	1,144
Mower.....	35,946	48,088	52,901
Nicollet.....	1,960	3,795	2,165
Nobles.....	5,014	4,514	9,257
Norman.....	3,732	6,605	3,377
Olmsted.....	29,171	45,903	27,190
Otter Tail.....	3,040	3,412	3,244
Pine.....	1,623	2,300	1,553
Ramsey.....	3,916	4,850	3,755
Redwood.....	663	1,075	773
Renville.....	1,203	1,953	1,588
Rice.....	9,793	12,460	9,560
Rock.....	3,950	5,876	5,765
St. Louis.....	2,119	1,767	2,886
Scott.....	1,029	1,095	897
Sherburne.....	1,300	970	933
Sibley.....	421	747	529
Stearns.....	3,114	3,236	2,635
Steele.....	7,157	12,229	7,367
Stevens.....	1,410	1,467	1,145
Swift.....	808	1,139	1,04
Todd.....	866	1,138	716
Traverse.....	825	1,141	1,187
Wabasha.....	4,637	7,120	4,216
Wadena.....	109	168	124
Waseca.....	1,729	2,607	2,036
Washington.....	17,236	20,340	16,035
Watsonwan.....	822	1,763	2,062
Wilkin.....	247	508	441
Winona.....	25,585	33,932	26,073
Wright.....	2,936	3,742	2,705
Yellow Medicine.....	480	910	608
Unreported Towns and Counties estimated.....	86,776	113,645	93,733
Totals.....	433,882	568,225	468,667

TABLE XI.—FLAX SEED.

Flax seed of Minnesota for 1891 and acreage of 1892 by counties.

COUNTIES.	1891.			1892.
	Acres.	Bushels.	Yield per acre.	Acres.
Anoka.....	20	90	4.50	5
Becker.....	355	5,409	15.20	14
Benton.....	62	1,065	17.70	9
Big Stone.....	2,041	26,188	12.80	452
Blue Earth.....	6,498	69,116	10.60	4,477
Brown.....	11,854	143,385	12.10	3,704
Carver.....	19	85	4.50	10
Chippewa.....	5,299	44,100	8.30	1,823
Chicago.....				1
Clay.....				206
Cottonwood.....	14,372	125,792	8.80	8,013
Dakota.....	751	14,154	18.80	
Dodge.....	14,731	153,617	10.40	11,097
Douglas.....	131	1,139	8.70	6
Fillmore.....	29,188	346,982	11.90	24,726
Freeborn.....	7,076	68,083	9.60	3,713
Goodhue.....	15,123	148,300	9.80	8,094
Grant.....	22	222	10.10	
Hennepin.....	10	80	8.00	26
Houston.....	2,128	28,170	13.20	1,502
Jackson.....	2,540	26,350	10.30	1,805
Kandiyohi.....	2,855	25,442	8.90	1,212
Lac qui Parle.....	3,000	30,000	10.00	1,500
Lincoln.....	14,793	107,875	7.30	5,606
Lyon.....	4,450	40,805	11.10	2,139
McLeod.....	1,080	10,988	10.10	278
Marshall.....	188	1,700	10.10	200
Martin.....	21,652	217,885	10.10	14,787
Morrison.....	32	172	5.40	38
Mower.....	32,759	405,616	12.40	29,412
Nicollet.....	4,130	51,310	12.40	3,020
Nobles.....	18,225	192,921	10.60	14,886
Norman.....	295	2,300	7.80	48
Olmsted.....	15,756	209,617	13.30	13,223
Otter Tail.....	94	1,131	12.00	106
Pine.....	1	2	2.00	11
Redwood.....	13,073	126,794	9.70	5,118
Renville.....	11,429	121,718	10.70	3,671
Rice.....	4,480	50,614	13.30	3,620
Rock.....	10,026	116,593	10.60	4,678
Scott.....	139	1,364	9.80	63
Sherburne.....	35	266	7.60	10
Sibley.....	3,074	38,785	12.60	886
Stearns.....	1,511	13,131	8.70	906
Steele.....	3,228	35,123	10.60	2,279
Stevens.....	7,280	84,120	11.60	3,850
Swift.....	7,638	71,637	9.10	2,464
Todd.....	198	1,900	9.60	4
Traverse.....	446	2,186	4.90	37
Wabasha.....	601	7,707	12.80	505
Wadena.....	8	120	15.00	
Waseca.....	1,671	16,449	9.80	601
Washington.....	966	10,403	10.80	548
Watsonwan.....	13,123	150,537	11.50	5,323
Wilkin.....	690	6,293	9.10	118
Winona.....	3,604	59,808	15.70	2,630
Wright.....	63	797	12.70	50
Yellow Medicine.....	6,734	65,814	9.80	1,561
Unreported towns and counties, estimated	80,522	875,660		48,722
Totals.....	402,612	4,378,300		243,613

TABLE XII.—TOTAL CULTIVATED ACREAGE.—*Wild Hay.*
Total cultivated acreage for 1891 and 1892.—Wild hay for 1891.

COUNTIES.	1891.	1892.	1891
	Acres.	Acres.	Wild hay, tons.
Aitkin.....	1,270	1,582	4,118
Anoka.....	21,067	24,242	14,713
Becker.....	22,399	24,322	9,673
Benton.....	24,641	25,705	11,095
Big Stone.....	29,014	30,782	8,582
Blue Earth.....	75,082	80,442	14,369
Brown.....	134,688	123,505	44,645
Carver.....	63,493	64,745	21,494
Chippewa.....	56,426	72,773	20,554
Chisago.....	27,260	29,638	12,160
Clay.....		172,733	
Cottonwood.....	100,969	99,773	24,855
Dakota.....	15,415	15,478	905
Dodge.....	86,725	78,653	7,071
Douglas.....	88,757	96,582	41,630
Fillmore.....	233,298	237,046	5,253
Freeborn.....	105,452	131,072	47,961
Goodhue.....	233,305	238,062	17,735
Grant.....	57,664	66,922	5,766
Hennepin.....	80,143	84,403	29,484
Houston.....	101,973	106,165	4,516
Hubbard.....	12,687	13,409	75
Isanti.....	27,339	29,789	14,378
Jackson.....	15,615	16,999	3,275
Kanabec.....	1,616	1,726	1,326
Kandiyohi.....	99,770	103,218	68,856
Lac qui Parle.....	169,630	185,230	55,000
Lake.....	110	112	6
Le Seur.....	16,068	15,739	4,391
Lincoln.....	64,468	71,856	17,932
Lyon.....	35,213	40,778	8,666
McLeod.....	71,932	75,871	28,810
Marshall.....	108,528	96,489	17,397
Martin.....	104,068	110,813	63,556
Meeker.....	103,151		
Mille Lacs.....		6,400	
Morrison.....	40,112	44,678	14,074
Mower.....	198,738	214,033	26,120
Nicollet.....	111,120	113,376	50,600
Nobles.....	124,977	151,618	35,532
Norman.....	123,403	125,735	28,245
Olmsted.....	162,174	171,263	7,601
Otter Tail.....	109,481	106,120	24,788
Pine.....	3,076	3,271	862
Ramsey.....	12,543	13,525	2,620
Redwood.....	111,173	125,360	34,904
Renville.....	152,560	152,306	53,299
Rice.....	107,670	113,728	29,589
Rock.....	108,908	123,636	17,395
St. Louis.....	2,811	3,233	405
Scott.....	84,909	42,761	8,607
Sherburne.....	26,800	30,640	10,650
Sibley.....	122,373	126,514	45,753
Stearns.....	166,815	172,662	51,528
Steele.....	95,964	87,955	32,579
Stevens.....	73,313	79,475	26,510
Swift.....	94,440	103,196	26,330
Todd.....	33,627	39,646	17,067
Traverse.....	68,811	77,615	9,341
Wabasha.....	43,988	46,057	512
Wadena.....	19,915	21,940	4,195
Waseca.....	61,348	61,859	15,920
Washington.....	75,194	80,053	2,237
Watsonwan.....	65,572	88,726	28,566
Wilkin.....	38,118	47,292	6,528
Winona.....	152,060	150,862	1,721
Wright.....	59,023	66,361	18,864
Yellow Medicine.....	104,067	118,948	35,045
Unreported towns and counties, estimated.....	1,272,027	1,702,191	326,424
Totals.....	6,860,154	6,979,674	1,632,122

TABLE XIII.—TIMOTHY AND CLOVER.

Timothy and Clover Seed, crop of Minnesota for 1891 by counties.

COUNTIES.	1891.	
	Timothy. Bus. Seed.	Clover. Bus. Seed.
Anoka	12	.....
Becker	33	.....
Benton	94	.....
Blue Earth	1,433	563
Brown	531	10
Carver	1	6
Chippewa	118	2
Chisago	59	115
Cottonwood	300	2
Dakota .....	.....	10
Dodge	27,096	45
Douglas	170	68
Fillmore	55,138	3,162
Freeborn	3,675	701
Goodhue	5,277	612
Grant	40	.....
Hennepin	9	676
Houston	1,457	519
Hubbard	3	.....
Isanti	68	5
Jackson	106	.....
Kandiyohi	116	.....
Lac qui Parle	300	.....
Le Sueur .....	.....	12
Lincoln	268	.....
Lyon	370	2
McLeod	123	127
Marshall	2,881	.....
Martin	1,940	7
Morrison	31	363
Mower	195,138	718
Nicollet	220	190
Nobles	5,003	252
Norman	902	.....
Olmsted	40,415	520
Otter Tail	174	.....
Pine	3	.....
Ramsey .....	.....	62
Redwood	136	30
Renville	280	110
Rice	1,024	1,537
Rock	5,819	408
Scott	3	759
Sherburne	51	.....
Sibley	162	26
Stearns	102	12
Steele	2,001	288
Stevens	50	30
Todd	96	.....
Wabasha	1,374	155
Wadena	100	.....
Waseca	172	484
Washington	292	308
Watsonwan	2,406	90
Wilkin	14	.....
Winona	17,350	226
Wright	74	66
Yellow Medicine	283	1
Unreported towns and counties estimated	93,826	3,324
Totals	460,131	16,632

TABLE XIV.—APPLES.

Apple trees growing and bearing in 1891 and 1892, and bushels produced in 1891.

COUNTIES.	1891.		Apples, bushels.	1892.	
	Trees growing.	Trees bearing.		Trees growing.	Trees bearing.
Aitkin.....	312	50	23	350	68
Anoka.....	601	301	192	718	454
Becker.....	840	41	2	306	12
Benton.....	824	213	137	1,052	291
Big Stone.....	964	184	78	1,030	226
Blue Earth.....	3,100	1,131	647	3,084	907
Brown.....	4,836	1,495	772	6,520	1,927
Carver.....	4,577	2,018	2,329	6,026	2,940
Chippewa.....	1,062	236	130	1,250	314
Chisago.....	2,006	773	579	2,161	747
Clay.....	862	189	8	265	43
Cottonwood.....	3,496	1,649	970	3,152	1,506
Dodge.....	2,826	590	314	3,827	1,149
Douglas.....	20,710	17,597	9,818	25,951	15,317
Fillmore.....	12,370	5,853	3,373	14,955	8,033
Goodhue.....	23,015	9,187	4,667	20,687	10,958
Grant.....	390	195	106	196	.....
Hennepin.....	11,383	4,892	3,833	29,109	5,678
Houston.....	13,301	7,715	10,334	14,557	8,303
Hubbard.....	400	5	.....	300	5
Isanti.....	1,241	710	269	1,304	740
Jackson.....	677	119	64	1,555	264
Kanabec.....	63	16	9	40	21
Kandiyohi.....	2,531	855	513	2,794	1,089
Lac qui Parle.....	2,500	250	75	2,500	250
Le Sueur.....	313	229	113	199	155
Lincoln.....	1,485	239	77	2,127	229
Lyon.....	2,612	706	81	2,512	464
McLeod.....	2,287	823	527	2,620	735
Marshall.....	50	.....	.....	32	.....
Martin.....	18,433	4,005	1,580	12,280	4,263
Millie Lac.....	735	236	63	850	663
Morrison.....	5,005	1,839	1,318	6,739	1,894
Mower.....	8,205	4,235	3,415	9,845	5,610
Nicollet.....	7,165	1,632	508	9,882	2,185
Nobles.....	329	3	.....	272	11
Norman.....	18,260	10,932	8,406	18,374	13,066
Olmsted.....	936	430	111	1,154	364
Otter Tail.....	231	93	30	443	75
Pine.....	1,002	247	217	611	200
Ramsey.....	3,582	772	181	3,836	1,248
Redwood.....	2,481	430	147	3,095	763
Renville.....	4,530	2,646	2,612	5,100	2,935
Rice.....	8,197	1,931	659	10,155	2,254
Rock.....	81	6	.....	59	12
St. Louis.....	1,235	773	1,440	1,198	674
Scott.....	384	203	121	328	123
Sherburne.....	5,509	1,836	1,469	5,978	1,583
Sibley.....	1,913	947	770	2,061	928
Stearns.....	7,973	3,511	1,189	8,343	3,610
Steele.....	960	455	165	1,770	799
Stevens.....	577	145	92	1,048	200
Swift.....	1,161	240	130	1,676	292
Todd.....	963	84	83	1,015	159
Traverse.....	5,216	2,324	2,337	5,521	2,471
Wabasha.....	324	3	.....	332	29
Wadena.....	2,808	1,223	424	3,340	1,610
Waseca.....	4,259	2,186	2,045	3,875	1,347
Washington.....	3,361	662	402	5,733	1,144
Watsonwna.....	74	.....	.....	31	.....
Wilkin.....	25,523	10,342	14,220	27,836	14,893
Winona.....	5,120	3,272	2,037	5,231	3,402
Wright.....	1,930	424	218	2,568	546
Yellow Medicine.....	69,671	29,057	21,566	78,343	33,451
Unreported towns and counties	.....	.....	.....	.....	.....
Totals.....	348,357	145,285	107,975	391,711	167,267

TABLE XV.—GRAPES.

Grape vines and Grapes — Nurseries — Tobacco crop.

COUNTIES.	1891.		1892.		1891. Tobacco pounds.
	Vines bearing.	Grapes pounds.	Vines bearing.	Nurseries number.	
Aitkin.....	200	300	206		75
Anoka.....	8	30	20	1	402
Becker.....					30
Benton.....	196	501	160		456
Big Stone.....	4		4		
Blue Earth.....	981	4,475	811	1	
Brown.....	1,511	3,670	1,699		365
Carver.....	3,489	9,945	2,395	2	228
Chippewa.....	23	2	57		
Chisago.....	29	50	4		50
Dodge.....	92	316	21		
Douglas.....			100		
Fillmore.....	1,248	4,644	836		27,850
Freeborn.....	330	2,546	564	1	
Goodhue.....	1,659	6,835	1,606	1	
Hennepin.....	6,403	35,835	10,234		815
Houston.....	14,976	132,581	12,785	2	500
Isanti.....	3	11	5		20
Jackson.....	6		95		
Kanabec.....					20
Kandiyohi.....	50	277	10		
Lac qui Parle.....	250	250	500	1	
Le Sueur.....	308	1,291	76		4,860
Lincoln.....	10	10	10		25
Lyon.....	414	3	433		
McLeod.....	254	241	134		480
Marshall.....					30
Martin.....	351	387	352		500
Morrison.....	39	30	38		928
Mower.....	9	6	6		
Nicollet.....	1,090	3,570	1,730		
Nobles.....	191	446	155	2	
Olmsted.....	3,170	4,517	714	3	9
Otter Tail.....	1		1		525
Pine.....	10	13	10		33
Ramsey.....	1,446	3,900	1,012		55
Redwood.....	212	203	203		
Benvenue.....	131	225	142		23
Rice.....	765	3,220	660	3	
Rock.....	539	1,970	409	1	25
St. Louis.....					60
Scott.....	2,642	3,630	2,562		
Sherburne.....	49	5	99		
Sibley.....	448	792	475		463
Stearns.....	25	327	17		194
Steele.....	231	665	224	1	50
Stevens.....	13		65		50
Swift.....	38		30		
Todd.....	12		86		270
Traverse.....			22		
Wabasha.....	98	531	245		
Wadena.....	5		4		
Waseca.....	175	71	163		
Washington.....	1,744	4,016	1,253	1	20
Watsonwan.....	121	639	173		23
Winona.....	3,413	14,506	3,430		500
Wright.....	1,925	8,932	1,970		427
Yellow Medicine.....	37	50	50		10
Unreported towns and coun- ties, estimated.....	12,750	64,080	12,241	5	9,918
Totals.....	63,751	320,403	61,206	25	40,591

TABLE XVI.—OTHER PRODUCTS AND FARMS.

Total acreage of other products for 1891 and number of farms for 1892, by counties:

COUNTIES.	Total acreage of other products.		Number of farms.	
	1891.	1892.	Whole number.	Of which new.
Aitkin.....	225	208	215	16
Anoka.....	229	192	628	8
Becker.....	41	50	504	6
Benton.....	93	92	467	12
Big Stone.....	1	20	239	7
Blue Earth.....	53	57	736	1
Brown.....	148	199	1,383	16
Carver.....	159	205	1,677	.....
Chippewa.....	32	60	285	12
Chisago.....	78	73	1,276	13
Clay.....	.....	73	1,588	6
Cottonwood.....	56	25	1,365	42
Dakota.....	10	97	224	1
Dodge.....	179	77	371	.....
Douglas.....	118	212	1,882	13
Fillmore.....	14,847	10,841	.....	.....
Freeborn.....	326	268	1,744	7
Goodhue.....	1,632	1,482	2,199	.....
Grant.....	.....	3	.....	.....
Hennepin.....	2,285	2,488	1,639	10
Houston.....	1,781	1,601	1,342	.....
Hubbard.....	25	13	200	10
Isanti.....	60	133	1,271	14
Jackson.....	.....	14	26	.....
Kanabec.....	28	25	188	6
Kandiyohi.....	104	128	1,707	6
Lac qui Parle.....	100	100	1,700	85
Lake.....	3	4	.....	.....
Le Sueur.....	100	101	494	.....
Lincoln.....	10	208	679	27
Lyon.....	58	35	407	1
McLeod.....	186	246	606	3
Marshall.....	26	59	1,469	.....
Martin.....	194	205	738	58
Mille Lacs.....	.....	451	483	121
Morrison.....	132	234	839	33
Mower.....	5,008	4,820	1,820	5
Nicollet.....	220	760	1,356	.....
Nobles.....	399	560	1,854	69
Norman.....	7	88	1,526	6
Olmsted.....	5,147	3,964	1,822	.....
Otter Tail.....	128	132	1,657	13
Pine.....	102	49	224	4
Ramsey.....	2,581	2,273	221	.....
Redwood.....	200	839	925	53
Renville.....	10	25	819	10
Rice.....	468	417	1,866	20
Rock.....	91	480	975	6
St. Louis.....	91	84	238	1
Scott.....	125	113	384	.....
Sherburne.....	67	72	414	4
Sibley.....	174	185	1,901	3
Stearns.....	329	289	2,148	46
Steele.....	106	509	930	.....
Stevens.....	155	210	782	82
Swift.....	5	44	1,104	7
Todd.....	244	151	834	26
Traverse.....	105	133	410	23
Wabasha.....	878	834	359	1
Wadena.....	91	118	455	36
Waseca.....	8,358	6,379	752	14
Washington.....	2,068	2,093	1,029	.....
Watsonwan.....	129	109	945	20
Wilkin.....	5	30	206	10
Winona.....	7,141	5,572	1,878	2
Wright.....	281	347	1,937	3
Yellow Medicine.....	145	155	907	54
Unreported towns and counties, estimated	14,560	13,031	30,584	263
Totals.....	72,801	65,157	92,917	1,317

TABLE XVII.—COWS, BUTTER AND CHEESE.
Milk Cows, Butter and Cheese and Cheese Factories.

COUNTIES.	1891.			1892.		
	Cows number.	Butter pounds.	Cheese pounds.	Cows number.	No. cheese factories.	Creamer's
Aitkin.....	393	80,316	3,500	428		
Anoka.....	3,491	218,622	127	3,320		1
Becker.....	1,908	97,225	50	2,098		2
Benton.....	2,407	117,587	4,900	2,348		1
Big Stone.....	805	70,625	230	649		
Blue Earth.....	3,733	178,516	2,130	2,427	2	2
Brown.....	7,454	373,750	5,715	7,875	3	
Carver.....	8,163	546,462	8,248	8,256	1	2
Chippewa.....	2,446	96,430	4,755	1,841	1	
Chisago.....	5,331	280,992	1,687	5,323		2
Clay.....				3,531		1
Cottonwood.....	5,305	209,725	100	5,400	1	
Dakota.....	1,728	59,488		1,584		
Dodge.....	7,232	853,430	72,300	6,146	2	3
Douglas.....	6,983	416,704	3,528	6,989		
Fillmore.....	25,006	1,271,966	23,000	18,611		
Freeborn.....	10,766	913,080	19,000	12,621		15
Goodhue.....	16,279	991,755	114,735	14,440	4	
Grant.....	3,435	153,993	770	210		
Hennepin.....	9,408	604,728	18,710	8,772		
Houston.....	9,912	628,650	4,840	9,074		2
Hubbard.....	500	13,562		400		
Isanti.....	3,867	228,917	1,315	4,281		
Jackson.....	995	31,850		966		
Kanabec.....	533	35,870	300	579		
Kandiyohi.....	7,038	325,097	100	7,307	2	4
Lac qui Parle.....	7,000		2,000	7,000	1	3
Lake.....	16	900		15		
Le Sueur.....	1,436	50,040		1,195		1
Lincoln.....	2,510	237,676	152	2,209	1	
Lyon.....	1,608	123,495	120	1,554		
McLeod.....	7,027	292,661	5,521	7,247	2	4
Marshall.....	3,440	164,785	1,058	3,560		
Martin.....	5,952	560,602	8,425	6,356		1
Mille Lacs.....				985		1
Morrison.....	3,048	203,277	150	2,872		1
Mower.....	11,840	1,102,968	8,400	11,840	1	
Nicollet.....	7,915	687,190	9,630	8,075	1	3
Nobles.....	4,080	332,360	350	4,634		3
Norman.....	5,921	380,676	1,025	5,322		2
Olmsted.....	12,186	1,266,239	218,977	11,731	3	13
Otter Tail.....	6,283	438,281	18,900	6,265	2	1
Pine.....	781	54,022	715	679		
Ramsey.....	1,086	42,543	500	904		
Redwood.....	5,862	201,480	3,985	4,811	2	1
Renville.....	6,478	413,855	323	5,873		
Rice.....	10,181	558,301	5,450	10,138	1	11
Rock.....	3,639	343,833	225	3,595		1
St. Louis.....	501	19,719	37	542		
Scott.....	3,441	210,295	30,000	3,781	2	
Sherburne.....	3,347	178,995	600	3,287	1	1
Sibley.....	9,827	896,735	20,660	9,937	2	6
Stearns.....	11,455	535,463	58,710	11,137	2	4
Steele.....	8,451	638,964	376,607	8,898	4	9
Stevens.....	2,993	205,800	44,000	3,085	1	
Swift.....	4,012	230,465	1,430	3,996		
Todd.....	3,625	224,730	4,182	4,956		
Traverse.....	1,281	92,390	645	1,174		1
Wabasha.....	2,195	175,230	1,065	1,922		3
Wadena.....	1,088	89,957		1,010	1	
Waseca.....	4,467	277,000	300	3,323		2
Washington.....	4,629	577,855	1,625	4,496		
Watsonwan.....	5,873	386,009	375	6,096		1
Wilkin.....	811	54,120	120	802		
Winona.....	8,530	636,515	400	8,583		4
Wright.....	5,236	341,276	7,335	5,632		
Yellow Medicine.....	4,301	273,177	245	4,612		
Unreported towns and Co's estimated.	84,976	5,440,786	244,911	82,446	10	30
Totals.....	424,881	27,203,945	1,374,555	412,230	53	152

TABLE XVIII.—SHEEP AND WOOL.

Sheep and Wool for 1891 and 1892.

COUNTIES.	Fall, 1891.		Spring, 1892.	
	Number of sheep sheared.	Wool, pounds.	Number of sheep sheared.	Wool, pounds.
Aitkin.....	53	204	54	200
Anoka.....	1,100	5,531	1,590	9,064
Becker.....	738	3,920	1,561	8,165
Benton.....	1,015	2,285	1,003	5,843
Big Stone.....	307	1,814	410	1,810
Blue Earth.....	1,347	6,427	1,389	6,304
Brown.....	984	4,273	2,007	7,999
Carver.....	633	3,420	3,714	23,070
Chippewa.....	394	1,529	678	3,241
Chisago.....	1,122	4,636	3,154	10,891
Clay.....			5,822	16,966
Cottonwood.....	21,759	79,033	24,579	127,010
Dakota.....	211	1,555	518	3,898
Dodge.....	1,684	11,515	2,500	15,367
Douglas.....	2,562	10,019	4,861	22,218
Fillmore.....	1,924	9,206	6,323	34,543
Freeborn.....	1,069	6,377	2,380	13,752
Goodhue.....	4,869	39,901	7,520	50,796
Grant.....	781	2,344	23	68
Hennepin.....	1,076	3,901	3,058	20,762
Houston.....	1,442	8,385	8,942	22,201
Hubbard.....	25	70	69	332
Isanti.....	2,220	10,215	5,973	16,786
Jackson.....	244	1,240	1,188	4,636
Kanabec.....	427	986	419	988
Kandiyohi.....	1,025	4,339	4,596	26,567
Lac qui Parle.....	4,000	12,000	4,500	15,000
Lake.....			33	95
Le Sueur.....	275	975	271	1,112
Lincoln.....	1,688	9,123	5,501	29,114
Lyon.....	357	2,425	1,222	7,279
McLeod.....	1,296	8,068	2,766	14,499
Marshall.....	1,946	5,810	2,170	8,947
Martin.....	4,213	28,751	4,360	23,450
Millie Lacs.....			436	1,736
Morrison.....	592	3,356	2,577	13,798
Mower.....	1,071	6,322	5,311	30,590
Nicollet.....	2,780	18,430	3,295	20,325
Nobles.....	2,514	18,696	5,058	25,623
Norman.....	1,656	6,296	4,338	19,612
Olmsted.....	3,284	25,905	8,865	39,074
Otter Tail.....	2,706	10,447	4,398	17,937
Pine.....	224	1,101	245	1,008
Ramsey.....	145	1,148	214	1,729
Redwood.....	2,171	12,308	4,449	25,189
Benvenue.....	2,806	15,576	2,911	16,936
Rice.....	2,777	17,280	4,792	26,363
Rock.....	738	6,348	2,569	18,273
St. Louis.....	45	152	70	221
Scott.....	40	184	955	3,288
Sherburne.....	250	1,245	405	1,257
Sibley.....	1,579	8,611	3,984	18,731
Stearns.....	1,313	5,876	4,222	19,306
Steele.....	1,463	15,438	2,989	18,790
Stevens.....	50	250	2,620	12,820
Swift.....	1,258	6,727	1,758	9,333
Todd.....	1,347	5,874	2,960	11,822
Traverse.....	114	447	118	580
Wabasha.....	740	4,173	483	2,724
Wadena.....	674	4,147	592	3,205
Waseca.....	949	6,419	1,191	8,675
Washington.....	1,217	8,822	1,964	13,645
Watsonwan.....	639	5,364	2,912	10,248
Wilkin.....	124	534	321	1,728
Winona.....	848	6,416	3,025	19,920
Wright.....	2,005	13,603	5,224	27,740
Yellow Medicine.....	1,950	9,509	3,350	16,654
Unreported towns and counties estimated	25,751	133,710	49,635	258,032
Totals.....	128,756	668,550	248,177	1,265,161

TABLE XIX.—BEES, HONEY AND MAPLE SYRUP.

Bees, Honey, Maple Syrup and Sugar crop of Minnesota for 1891 and 1892 by counties.

COUNTIES.	1891.		1892.	
	Hives, number.	Honey, pounds.	Maple syrup, gallons.	Maple sugar, pounds.
Aitkin.....			123	400
Anoka.....	58	190	19	300
Becker.....			130	10
Benton.....	280	15,005		
Big Stone.....	140			
Blue Earth.....	125	3,248		
Brown.....	94	2,124		
Carver.....	337	2,395	678	20
Chippewa.....	22	300	25	
Chisago.....	288	9,633	173	
Cottonwood.....	70	1,400		
Dakota.....	32	108		
Dodge.....	261	9,579		
Douglas.....	40	600	216	50
Fillmore.....	964	14,168	82	600
Freeborn.....	773	5,990		
Goodhue.....	778	12,804		
Hennepin.....	1,074	17,535	1,019	3,200
Houston.....	515	7,870	1,087	430
Isanti.....	55	840	20	
Jackson.....	10	200		
Kandiyohi.....	184	4,074		
Lac qui Parle.....	35	1,000		
Le Sueur.....	61	550		
Lincoln.....	1	30		
Lyon.....	52	1,100		
McLeod.....	113	909	12	
Martin.....	435	6,168		
Millie Lacs.....			1,614	2,350
Morrison.....	117	3,120	280	1,434
Mower.....	270	4,187		
Nicollet.....	575	17,060	100	
Nobles.....	9	190	2	
Norman.....	2	20		
Olmsted.....	807	12,325	410	
Otter Tail.....	86	920	35	8
Ramsey.....	6	80		
Redwood.....	37	255		
Renville.....	51	146		
Rice.....	1,251	16,810	500	480
Rock.....	74	1,710	6	
St. Louis.....	93	6,550		
Scott.....	151	1,860		
Sherburne.....	208	5,815	30	24
Sibley.....	555	7,173	100	400
Stearns.....	395	11,810		
Steele.....	264	5,826	10	
Stevens.....	66	1,550		
Todd.....	42	500	877	702
Wabasha.....	256	5,240		75
Wadena.....	2	40		
Waseca.....	163	1,240		
Washington.....	831	6,980		
Watsonwan.....	57	543		
Wilkin.....			51	
Winona.....	1,426	16,789		19
Wright.....	544	15,515	1,414	500
Yellow Medicine.....	132	2,325		
Unreported towns and counties estimated	3,816	66,249	2,248	2,768
Totals.....	19,083	331,247	11,242	13,840

TABLE XX.—POPULATION IN MINNESOTA.
SUMMARY BY COUNTIES.

COUNTIES.	State Census 1885.	POPULATION.		INCREASE.	
		1890	1880	Number.	Per cent
The state.....	1,117,708	1,301,836	780,773	521,053	66.74
Aitkin.....	1,388	2,462	366	2,096	572.86
Anoka.....	10,469	9,884	7,108	2,776	90.05
Becker.....	7,433	9,401	5,218	4,183	80.16
Beltrami.....	111	312	10	302	3,020.00
Benton.....	4,721	6,264	3,012	3,272	108.33
Big Stone.....	4,697	5,722	3,668	2,034	65.15
Blue Earth.....	26,462	29,210	22,889	6,321	27.62
Brown.....	13,976	15,817	12,018	3,799	31.61
Carlton.....	3,189	5,272	1,230	4,042	328.62
Carver.....	15,965	16,532	14,140	2,394	16.92
Cass.....	1,135	1,247	486	761	156.58
Chippewa.....	6,561	8,555	5,408	3,147	58.19
Chisago.....	9,785	10,359	7,982	2,377	28.76
Clay.....	10,362	11,517	5,867	5,650	95.68
Cook.....	322	98	65	33	60.77
Cottonwood.....	5,894	7,412	5,533	1,879	33.96
Crow Wing.....	8,743	8,852	2,319	6,533	281.72
Dakota.....	18,590	20,240	17,391	2,849	16.38
Dodge.....	10,487	10,864	11,814	490	4.23
Douglas.....	12,924	14,606	9,130	5,476	50.98
Faribault.....	15,164	16,708	13,016	3,692	28.37
Fillmore.....	26,677	25,966	26,162	2,196	7.80
Freeborn.....	17,364	17,962	16,069	1,893	11.78
Goodhue.....	81,113	28,806	29,651	845	2.85
Grant.....	5,197	6,875	3,004	3,871	128.86
Hennepin.....	148,737	165,294	67,013	118,281	176.50
Houston.....	15,432	14,653	16,362	1,679	10.28
Hubbard.....	853	1,412	.....	1,412	.....
Isanti.....	7,031	7,607	5,063	2,544	50.25
Itasca.....	273	744	124	619	499.19
Jackson.....	6,110	8,924	4,806	4,118	85.68
Kanabec.....	1,109	1,579	505	1,071	212.67
Kandiyohi.....	12,849	13,997	10,159	3,838	37.78
Kittson.....	3,462	5,387	905	4,482	495.25
Lac qui Parle.....	7,642	10,382	4,891	5,491	112.27
Lake.....	453	1,299	106	1,193	1,125.47
Le Sueur.....	18,559	19,057	16,103	2,954	16.34
Lincoln.....	4,362	5,691	2,945	2,746	93.24
Lyon.....	7,936	9,501	6,257	3,244	51.85
McLeod.....	15,311	17,026	12,342	4,684	37.95
Marshall.....	5,560	9,130	992	8,138	820.86
Martin.....	6,426	9,408	5,249	4,154	79.14
Meeker.....	14,501	15,456	11,739	3,717	31.66
Millie Laas.....	1,897	2,845	1,501	1,344	89.54
Morrison.....	9,406	13,325	5,875	7,450	126.81
Nower.....	15,277	18,019	16,799	1,220	7.26
Murray.....	5,046	6,692	3,604	3,088	85.68
Nicollet.....	13,434	13,382	12,333	1,049	8.51
Nobles.....	5,639	7,958	4,435	3,523	79.44
Norman.....	8,335	10,618	.....	10,618	.....
Olmsted.....	20,518	19,806	21,543	1,737	8.06
Otter Tail.....	31,520	34,232	18,675	15,657	83.30
Pine.....	2,186	4,052	1,365	2,687	196.85
Pipestone.....	3,956	5,132	2,092	3,040	145.32
Polk.....	23,475	30,192	11,433	18,758	16.41
Pope.....	8,707	10,032	5,874	4,158	70.70
Ramsey.....	116,227	139,796	45,890	93,906	204.62
Redwood.....	6,488	9,386	5,375	4,011	74.62
Renville.....	13,153	17,099	10,791	6,308	58.46
Rice.....	24,941	23,968	22,481	1,487	6.61
Rock.....	5,239	6,817	3,660	3,148	86.80
St. Louis.....	20,453	44,862	4,504	40,358	896.05
Scott.....	14,181	13,831	13,516	315	2.33
Sherburne.....	5,647	5,908	3,855	2,053	53.26
Sibley.....	13,126	15,199	10,637	4,562	42.89
Stearns.....	28,712	34,844	21,966	12,888	58.70
Steele.....	12,733	13,232	12,460	772	6.20
Stevens.....	4,511	5,251	3,911	1,340	34.26
Swift.....	8,373	10,161	7,473	2,688	35.97
Todd.....	9,643	12,930	6,133	6,797	110.83
Traverse.....	2,860	4,516	1,507	3,009	199.67
Wabasha.....	17,990	16,972	18,206	1,234	6.78
Wadena.....	3,565	4,053	2,080	1,973	94.86
Waseca.....	13,342	13,313	12,385	928	7.49
Washington.....	29,751	25,992	19,563	6,429	32.86
Watsonwan.....	5,995	7,746	5,104	2,642	51.76
Wilkin.....	3,734	4,346	1,906	2,440	128.02
Winona.....	31,928	33,797	27,197	6,600	21.27
Wright.....	22,700	24,164	18,104	6,060	33.47
Yellow Medicine.....	7,863	9,864	5,884	3,970	67.47

TABLE XXI.—HORSES, MULES AND ASSES.
(From returns made to State Auditor for taxation 1892.)

COUNTIES.	One year old.	Two years old.	Three y'rs old and over
Altkin	27	22	399
Anoka	812	362	2,132
Becker	376	423	2,980
Beltrami	1	1	19
Benton	197	222	1,639
Big Stone	439	409	3,119
Blue Earth	1,571	1,589	3,713
Brown	976	1,008	5,075
Carlton	10	19	567
Carver	637	584	4,460
Cass	16	19	336
Chippewa	750	639	.....
Chisago	276	250	2,647
Clay	849	863	5,711
Cottonwood	606	579	4,512
Crow Wing	57	66	1,276
Dakota	1,081	1,000	6,441
Dodge	973	1,050	4,853
Douglas	719	745	5,439
Faribault	1,501	1,520	7,812
Fillmore	2,493	2,366	9,440
Freeborn	1,431	1,622	7,142
Goudhue	1,542	1,566	8,908
Grant	643	535	3,977
Hennepin	828	845	15,485
Houston	1,069	1,007	5,148
Hubbard	76	69	778
Isanti	213	222	2,075
Itasca	6	97	164
Jackson	794	644	5,316
Kanabec	13	6	234
Kandiyohi	1,036	1,081	6,601
Kittson	512	823	3,046
Lac qui Parle	936	926	6,544
Lake .....	.....	.....	19
Le Sueur	705	698	5,162
Lincoln	425	396	3,090
Lyon	787	793	5,018
McLeod	986	1,029	6,150
Marshall	566	548	4,107
Martin	1,134	1,008	6,148
Meeker	875	843	6,084
Miller	65	69	635
Morrison	403	399	3,439
Mower	1,601	1,439	7,572
Murray	631	607	4,550
Nicollet	1,199	1,116	5,415
Nobles	881	799	5,727
Norman	686	744	5,063
Olustad	1,641	1,685	7,018
Otter Tail	1,676	1,649	11,442
Pine	41	26	628
Pipestone	430	434	3,297
Polk	1,525	1,505	11,030
Pope	1,101	923	5,290
Ramsey	126	136	6,653
Redwood	985	932	6,648
Renville	1,853	2,084	8,428
Rice	961	982	6,050
Rock	646	680	4,570
St. Louis	35	28	2,647
Scott	522	499	4,201
Sherburne	270	319	2,244
Sibley	1,089	1,086	6,630
Stearns	1,569	1,489	9,061
Steele	860	925	4,733
Stevens	474	492	3,188
Swift	816	791	5,421
Todd	463	416	3,709
Traverse	500	493	2,889
Wabasha	948	910	6,120
Wadena	149	172	1,387
Waseca	921	905	4,944
Washington	484	410	4,176
Watsonwan	610	559	4,641
Wilkin	410	367	3,223
Winona	1,010	1,020	6,166
Wright	1,129	1,298	6,958
Yellow Medicine	856	798	6,152
Totals	58,731	57,782	

TABLE XXII.—CATTLE, SHEEP AND HOGS.

Cattle, Sheep and Hogs for 1892. From returns made to the auditor for taxation.

COUNTIES.	CATTLE.					SHEEP.	HOGS.
	One yearold.	Two yrs. old.	Cows.	Working oxen.	All other cattle 3 yrs. old & over.		
Aitkin.....	270	217	617	590	43	113	215
Anoka.....	1,581	1,480	4,484	52	283	1,937	1,555
Becker.....	2,403	1,683	5,370	867	355	4,214	1,366
Beltrami.....	41	25	75	27	9	53	14
Benton.....	1,617	1,510	3,122	289	480	1,343	1,491
Big Stone.....	1,549	1,140	2,789	373	189	1,466	864
Blue Earth.....	4,994	3,565	11,920	6	334	5,617	11,372
Brown.....	3,770	2,573	9,888	23	175	2,813	4,047
Carlton.....	96	80	479	197	15	68	74
Carver.....	3,622	3,674	8,656	45	310	4,425	6,129
Cass.....	250	193	420	254	50	384	88
Chippewa.....	2,595	1,883	4,802	130	331	3,291	1,555
Chisago.....	3,049	2,459	6,573	291	580	3,806	1,997
Clay.....	3,189	2,236	6,541	518	399	8,137	2,100
Cottonwood.....	3,321	2,263	5,564	240	214	24,563	2,239
Crow Wing.....	570	445	1,601	326	94	430	481
Dakota.....	2,833	2,917	10,124	15	2,423	9,905	5,649
Dodge.....	4,841	3,269	9,745	273	347	5,185	4,036
Douglas.....	3,357	2,456	7,140	623	416	5,020	2,623
Faribault.....	6,216	5,086	12,138	8	563	5,618	8,569
Fillmore.....	8,723	6,040	17,692	4	495	7,396	15,481
Freeborn.....	8,959	6,036	17,923	33	591	4,342	9,156
Goodhue.....	5,974	4,836	18,192	11	468	8,848	8,460
Grant.....	2,006	1,445	4,282	547	259	3,195	1,464
Hennepin.....	2,147	1,772	13,242	22	375	4,073	5,445
Houston.....	5,712	4,967	11,030	16	542	3,953	13,435
Hubbard.....	290	245	532	114	76	365	415
Isanti.....	2,118	1,608	4,605	382	440	4,280	1,382
Itasca.....	12	2	45	561	1	.....	88
Jackson.....	4,869	3,600	7,748	276	406	11,114	3,258
Kanabec.....	236	217	602	243	45	499	214
Kandiyohi.....	6,061	4,803	10,230	306	762	6,267	1,836
Kittson.....	1,650	1,269	3,262	983	294	1,932	1,006
Lac qui Parle.....	3,233	2,567	6,442	449	383	3,540	2,727
Lake.....	6	5	89	42	2	41	13
Le Sueur.....	2,546	1,985	7,044	3	231	2,921	8,431
Lincoln.....	1,882	1,340	3,461	663	220	8,114	1,114
Lyon.....	2,505	1,836	5,231	261	262	9,874	2,152
McLeod.....	3,435	2,882	10,878	148	230	4,566	5,291
Marshall.....	2,369	1,857	4,085	1,619	815	2,957	1,802
Martin.....	4,205	3,166	8,088	77	638	7,126	6,889
Meeker.....	3,611	2,699	8,344	176	400	3,327	2,271
Mill Lake.....	525	404	977	163	82	502	476
Morrison.....	2,214	1,953	4,786	701	408	3,439	2,692
Mower.....	6,150	4,108	13,069	1	296	5,062	5,796
Murray.....	2,364	1,480	4,830	415	152	6,793	1,964
Nicollet.....	3,253	2,621	8,136	3	215	3,145	5,661
Nobles.....	3,267	2,198	5,694	249	251	8,683	3,782
Norman.....	3,462	2,424	6,696	799	462	5,714	2,065
Olustee.....	6,609	5,142	13,901	1	468	14,401	10,393
Otter Tail.....	7,154	5,299	15,185	1,468	823	11,001	6,445
Pine.....	476	339	1,169	481	49	365	574
Pipestone.....	1,119	807	2,675	34	71	2,604	1,257
Polk.....	5,942	4,617	13,905	3,578	1,269	9,058	5,136
Pope.....	5,007	4,111	7,455	453	605	3,805	2,066
Ramsey.....	197	181	4,860	7	66	1,061	828
Redwood.....	4,456	3,469	8,091	200	447	8,080	2,680
Renoville.....	5,466	4,151	11,366	229	310	6,025	4,325
Rice.....	4,064	3,089	11,836	30	335	5,589	5,541
Rock.....	2,521	1,939	4,880	40	179	3,379	5,683
St. Louis.....	141	66	1,472	98	16	1,109	401
Scott.....	2,346	2,107	7,285	85	303	3,477	5,624
Sherburne.....	2,476	222	332	85	503	837	1,786
Sibley.....	3,753	2,603	11,150	30	293	4,676	6,618
Stearns.....	7,072	5,430	14,611	621	689	5,829	8,291
Steele.....	4,672	3,754	11,342	8	513	6,219	5,498
Stevens.....	1,537	1,266	3,046	375	595	2,560	945
Swift.....	3,662	2,929	6,286	371	299	2,907	2,120
Todd.....	2,624	1,919	5,731	920	286	4,541	2,578
Traverse.....	894	558	2,036	384	135	243	771
Wabasha.....	3,724	2,973	7,538	.....	175	5,987	8,185
Wadena.....	598	424	1,549	266	97	1,503	1,682
Waseca.....	3,915	2,561	8,469	25	253	4,622	4,777
Washington.....	1,710	1,406	6,272	52	281	2,934	3,686
Watsonwan.....	2,640	1,711	7,368	22	282	5,010	4,303
Wilkin.....	1,202	905	2,565	368	197	2,305	917
Winona.....	5,323	4,410	9,685	.....	191	3,980	7,697
Wright.....	4,172	3,335	11,107	364	445	9,828	6,414
Yellow Medicine.....	3,729	2,654	7,044	491	402	5,714	2,791
Totals.....	244,191	186,438	539,075	26,079	27,948	359,223	288,819

TABLE XXIII.—ASSESSED VALUATION OF PERSONAL PROPERTY IN MINNESOTA.

Total value of all personal property, as returned by the state board.

Counties.	Amount.	Counties.	Amount.
Aitkin.....	\$128,496	Meeker.....	\$891,088
Anoka.....	678,043	Mille Lacs.....	195,169
Becker.....	565,240	Morrison.....	701,018
Beltrami.....	10,796	Mower.....	1,399,677
Benton.....	260,154	Murray.....	559,184
Big Stone.....	420,481	Nicollet.....	1,036,803
Blue Earth.....	1,954,029	Nobles.....	817,984
Brown.....	976,024	Norman.....	811,547
Carlton.....	655,243	Olmsted.....	2,009,220
Carver.....	856,854	Otter Tail.....	1,667,281
Cass.....	129,960	Pine.....	203,669
Chippewa.....	600,572	Pipestone.....	522,816
Chisago.....	683,606	Polk.....	2,184,006
Clay.....	968,339	Pope.....	729,866
Cottonwood.....	667,262	Ramsey.....	17,376,442
Crow Wing.....	557,025	Redwood.....	943,502
Dakota.....	1,519,080	Renville.....	1,158,062
Dodge.....	954,960	Rice.....	1,649,287
Douglas.....	1,000,508	Rock.....	609,887
Faribault.....	1,349,768	St. Louis.....	6,080,222
Fillmore.....	2,195,367	Scott.....	870,623
Freeborn.....	1,237,142	Sherburne.....	361,719
Goodhue.....	2,615,960	Sibley.....	967,979
Grant.....	502,744	Stearns.....	2,191,588
Hennepin.....	21,262,745	Steele.....	1,233,923
Houston.....	1,152,229	Stevens.....	498,041
Hubbard.....	157,553	Swift.....	751,647
Isanti.....	343,113	Todd.....	635,092
Itasca.....	1,018,800	Traverse.....	353,130
Jackson.....	647,655	Wabasha.....	1,107,891
Kanabec.....	61,060	Wadena.....	347,469
Kandiyohi.....	1,168,391	Waseca.....	800,076
Kittson.....	468,147	Washington.....	2,593,318
Lac qui Parle.....	1,047,501	Watsonwan.....	698,236
Lake.....	39,496	Wilkin.....	448,294
Le Sueur.....	914,103	Winona.....	3,098,947
Lincoln.....	421,490	Wright.....	1,442,761
Lyon.....	882,722	Yellow Medicine.....	995,606
McLeod.....	1,231,003		
Marshall.....	609,500	Total.....	\$114,356,876
Martin.....	797,113		

CHAPTER II.

COUNTY STATISTICS,

COMPILED FROM

OFFICIAL REPORTS FOR 1891—1892.

CONTENTS OF THIS CHAPTER.

COUNTIES IN ALPHABETICAL ORDER, SHOWING

County seat and population, 1890.

Crop reports and acreage, 1891—1892.

Number of farms, 1892.

Farm stock, 1892.

Number of cheese factories, 1892

Number of creameries, 1892

Personal property, 1892.

AITKIN COUNTY.

(Population, 1890, 2,462 ; County seat, Aitkin.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891,	Yield per acre.	Acres, 1892.
Wheat.....	37	Bushels..... 982	26.50	103
Oats.....	450	"..... 16,980	37.70	636
Corn.....	135	"..... 5,261	39.00	107
Barley.....	33	"..... 878	26.80	44
Rye.....	11	"..... 380	34.50	9
Buckwheat.....	5	"..... 100	20.00	9
Potatoes.....	199	"..... 25,428	.....	217
Beans.....	87	"..... 1,586	.....	92
Sugar cane.....	.....	Syrup, gallons.....	.....	3
Cultivated hay.....	88	Tons..... 164	.....	159
Flax seed.....	.....	Bushels.....	.....	.....
Other products.....	225	.....	.....	203
Total acres cultivated.....	1,270	.....	.....	1,582
Acres increase in 1892.....	312	.....	.....	.....

MISCELLANEOUS 1891.

Wild hay, tons.....	4,118	Maple syrup, gallons, 1892.....	122
Timothy seed, bushels.....	.....	Butter, pounds.....	30,316
Clover seed, bushels.....	.....	Cheese, pounds.....	3,500
Apple trees, growing.....	312	Wool, pounds, fall '91.....	204
Apple trees, bearing.....	50	Wool, pounds, spring '92.....	200
Apples, bushels.....	23	Land surface, acres, 1892.....	1,165,691.90
Grape vines, bearing.....	200	Water surface, acres, 1892.....	111,090.48
Grapes, pounds.....	800	Number cheese factories, 1892.....	.....
Tobacco, pounds.....	75	Number of creameries, 1892.....	.....
Bees, number of hives.....	.....	Number of farms, 1892.....	215
Honey, pounds.....	.....	.....	.....

FARM STOCK, 1892.

Number of milch cows.....	617
Number of horses, all ages.....	948
Number of cattle, all ages, including milch cows.....	1,737
Number of sheep.....	113
Number of hogs.....	215
Personal property.....	\$128,496

ANOKA COUNTY.

(Population 1890, 9,884 ; County Seat, Anoka.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	2,001	Bushels..... 32,561	16.30	3,965
Oats.....	5,283	"..... 161,256	30.50	6,921
Corn.....	5,882	"..... 189,090	23.60	5,290
Barley.....	22	"..... 374	17.00	44
Rye.....	1,912	"..... 26,701	35.40	2,737
Buckwheat.....	236	"..... 2,702	11.00	249
Potatoes.....	2,646	"..... 289,142	.....	2,707
Beans.....	236	"..... 1,872	.....	211
Sugar cane.....	64	Syrup, gallons..... 611	.....	20
Cultivated hay.....	2,526	Tons..... 2,560	.....	1,881
Flax seed.....	20	Bushels..... 90	4.50	5
Other products.....	229	.....	.....	192
Total acres cultivated.....	21,057	.....	.....	24,242
Acres increase in 1892.....	3,185	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	14,713	Maple syrup, gallons, 1892.....	10
Timothy seed, bushels.....	12	Butter, pounds.....	218,662
Apple trees, growing.....	601	Cheese, pounds.....	127
Apple trees, bearing.....	391	Wool, pounds, fall '91.....	5,531
Apples, bushels.....	192	Wool, pounds, spring '92.....	9,064
Grape vines, bearing.....	8	Land surface, acres, 1892.....	271,925.66
Grapes, pounds.....	30	Water surface, acres, 1892.....	12,880.82
Tobacco, pounds.....	402	Number of creameries, 1892.....	1
Bees, number of hives.....	58	Number of farms, 1892.....	628
Honey, pounds.....	190

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FARM STOCK, 1892.

Number of milch cows.....	4,464
Number of horses, all ages.....	2,806
Number of cattle, all ages, including milch cows.....	7,840
Number of sheep.....	1,973
Number of hogs.....	1,555
Personal property.....	\$678,043

BECKER COUNTY.

(Population, 1890, 9,401, County seat, Detroit.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	16,269	Bushels..... 307,527	18.90	18,017
Oats.....	3,733	"..... 127,347	34.10	3,901
Corn.....	84	"..... 2,541	30.30	123
Barley.....	419	"..... 14,024	33.50	638
Rye.....	67	"..... 1,182	17.60	44
Buckwheat.....	1	"..... 60	60.00	.....
Potatoes.....	282	"..... 34,815	.....	253
Beans.....	2	"..... 37	.....	1
Cultivated hay.....	1,126	Tons..... 1,631	.....	1,281
Flax seed.....	355	Bushels..... 5,409	15.20	14
Other products.....	41	.....	.....	50
Total acres cultivated.....	22,399	.....	.....	24,322
Acres increase in 1892.....	1,923	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	9,673	Cheese, pounds.....	50
Timothy seed, bushels.....	33	Wool, pounds, fall '91.....	3,920
Apple trees, growing.....	340	Wool, pounds, spring '92.....	8,135
Apple trees, bearing.....	41	Land surface, acres, 1892.....	1,836,678.00
Apples, bushels.....	2	Water surface, acres, 1892.....	88,073.66
Tobacco, pounds.....	30	Number of creameries, 1892.....	2
Maple syrup, gallons, 1892.....	130	Number of farms, 1892.....	504
Butter, pounds.....	97,225		

FARM STOCK, 1892.

Number of milch cows.....	5,370
Number of horses, all ages.....	3,759
Number of cattle, all ages, including milch cows.....	10,678
Number of sheep.....	4,214
Number of hogs.....	1,366
Personal property.....	\$565,240

BELTRAMI COUNTY.

(Population, 1890, 312.)

FARM STOCK, 1892.

Number of milch cows.....	75
Number of horses, all ages.....	21
Number of cattle, all ages, including milch cows.....	177
Number of sheep.....	88
Number of hogs.....	14
Personal property.....	\$10,796

BENTON COUNTY.

(Population, 1890, 6,284; County Seat, Sauk Rapids.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	13,079	Bushels..... 218,566	16 70	14,464
Oats.....	5,655	"..... 183,405	32.40	5,968
Corn.....	2,679	"..... 59,445	22.20	2,098
Barley.....	121	"..... 4,028	33.30	227
Rye.....	1,258	"..... 17,744	14.10	1,610
Buckwheat.....	212	"..... 56		20
Potatoes.....	490	"..... 55,686		362
Beans.....	19	"..... 178		24
Sugar cane.....	4	Syrup, gallons..... 240		4
Cultivated hay.....	979	Tons..... 1,057		887
Flax seed.....	62	Bushels..... 1,095	17.70	9
Other products.....	93			92
Total acres cultivated.....	24,641			25,705
Acres increase in 1892.....	1,064			

MISCELLANEOUS, 1891.

Wild hay, tons.....	19,695	Honey, pounds.....	15,696
Timothy seed, bushels.....	94	Butter, pounds.....	117,587
Apple trees, growing.....	825	Cheese, pounds.....	4,900
Apple trees, bearing.....	213	Wool, pounds, fall '91.....	2,825
Apples, bushels.....	137	Wool, pounds, spring '92.....	5,643
Grape vines, bearing.....	196	Land surface, acres, 1892.....	257,798.90
Grapes, pounds.....	501	Water surface, acres, 1892.....	2,275.41
Tobacco, pounds.....	456	Number of creameries, 1892.....	1
Bees, number of hives.....	280	Number of farms, 1892.....	467

FARM STOCK, 1892.

Number of milch cows.....	3,122
Number of horses, all ages.....	2,058
Number of cattle, all ages, including milch cows.....	6,998
Number of sheep.....	1,343
Number of hogs.....	1,491
Personal property.....	\$260,154

BIG STONE COUNTY.

(Population, 1890, 5,722, County Seat, Ortonville.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	20,840	Bushels..... 345,527	16.60	23,556
Oats.....	4,839	"..... 131,984	27.30	5,304
Corn.....	678	"..... 14,175	20.90	648
Barley.....	407	"..... 10,901	26.60	579
Buckwheat.....		".....		3
Potatoes.....	101	"..... 10,210		106
Beans.....		".....		4
Cultivated hay.....	107	Tons..... 144		100
Flax seed.....	2,041	Bushels..... 26,188	12.80	462
Other products.....	1			20
Total acres cultivated.....	29,014			30,782
Acres increase in 1892.....	1,768			

MISCELLANEOUS.

Wild hay, tons.....	8,582	Cheese, pounds.....	230
Apple trees, growing.....	964	Wool, pounds, fall '91.....	1,814
Apple trees, bearing.....	184	Wool, pounds, spring '92.....	1,810
Apples, bushels.....	78	Land surface, acres, 1892.....	316,497.42
Grape vines, bearing.....	4	Water surface, acres, 1892.....	26,737.33
Bees, number of hives.....	140	Number of farms, 1892.....	239
Butter, pounds.....	70,625		

FARM STOCK, 1892.

Number of milch cows.....	2,789
Number of horses, all ages.....	4,017
Number of cattle, all ages, including milch cows.....	6,040
Number of sheep.....	1,468
Number of hogs.....	884
Personal property.....	\$420,481

BLUE EARTH COUNTY.

(Population, 1890, 29,210, County seat, Mankato.)

AGRICULTURE.

PRODUCT.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	30,001	Bushels..... 522,844	17.40	36,160
Oats.....	18,374	"..... 672,978	36.80	19,962
Corn.....	14,966	"..... 453,460	32.30	14,194
Barley.....	2,339	"..... 55,688	23.80	2,761
Rye.....	28	"..... 780	27.90	44
Buckwheat.....	2	"..... 60	30.00	.....
Potatoes.....	524	"..... 45,015	.....	533
Beans.....	10	"..... 101	.....	12
Sugar cane.....	27	Syrup, gal'ns..... 1,667	.....	44
Cultivated hay.....	2,240	Tons..... 3,585	.....	3,068
Flax seed.....	6,408	Bushels..... 69,116	10.60	4,477
Other products.....	53	.....	.....	57
Total acres cultivated.....	75,062	.....	.....	80,442
Acres increase in 1892.....	5,380	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	14,369	Butter, pounds.....	178,516
Timothy seed, bushels.....	1,432	Cheese, pounds.....	2,130
Clover seed, bushels.....	583	Wool, pounds, fall '91.....	6,427
Apple trees, growing.....	3,100	Wool, pounds, spring '92.....	6,304
Apple trees, bearing.....	1,131	Land surface, acres, 1892.....	475,582.34
Apples, bushels.....	647	Water surface, acres, 1892.....	21,510.39
Grape vines, bearing.....	931	Number of cheese factories, '92.....	2
Grapes, pounds.....	4,475	Number of creameries, 1892.....	2
Bees, number of hives.....	125	Number of farms, 1892.....	736
Honey, pounds.....	3,248	.....	.....

FARM STOCK, 1892.

Number of milch cows.....	11,920
Number of horses, all ages.....	11,673
Number of cattle, all ages, including milch cows.....	20,819
Number of sheep.....	5,617
Number of hogs.....	11,372
Personal property.....	\$1,954,029

BROWN COUNTY.

(Population, 1890, 15,811; County seat, New Ulm.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	73,471	Bushels..... 1,246,705	17.00	80,453
Oats.....	26,714	"..... 689,822	25.80	20,898
Corn.....	19,694	"..... 400,232	20.30	13,828
Barley.....	1,231	"..... 30,764	25.00	2,013
Rye.....	105	"..... 5,658	53.90	90
Buckwheat.....	11	"..... 148	13.50	11
Potatoes.....	727	"..... 44,834	.....	897
Beans.....	14	"..... 250	.....	8
Sugar cane.....	78	Syrup, gal'ns..... 6,350	.....	49
Cultivated hay.....	641	Tons..... 1,007	.....	1,343
Flax seed.....	11,854	Bushels..... 143,335	12.10	3,704
Other products.....	148	.....	.....	199
Total acres cultivated.....	134,688	.....	.....	123,505

MISCELLANEOUS, 1891.

Wild hay, tons.....	44,845	Honey, pounds.....	2,124
Timothy seed, bushels.....	531	Butter, pounds.....	373,750
Clover seed, bushels.....	10	Cheese, pounds.....	5,715
Apple trees, growing.....	4,836	Wool, pounds, fall '91.....	4,273
Apple trees, bearing.....	1,236	Wool, pounds, spring '92.....	7,929
Apples, bushels.....	772	Land surface, acres, 1892.....	387,733.30
Grape vines, bearing.....	1,511	Water surface, acres, 1892.....	6,937.52
Grapes, pounds.....	3,070	No. of cheese factories, 1892.....	3
Tobacco, pounds.....	346	Number of farms, 1892.....	1,383
Bees, number of hives.....	94		

FARM STOCK, 1892.

Number of milch cows.....	9,388
Number of horses, all ages.....	7,659
Number of cattle, all ages, including milch cows.....	15,931
Number of sheep.....	2,813
Number of hogs.....	4,047
Personal property.....	\$976,024

CARLTON COUNTY.

(Population 1890, 5,272; County seat, Carlton.)

FARM STOCK, 1892.

Number of milch cows.....	479
Number of horses, all ages.....	586
Number of cattle, all ages, including milch cows.....	879
Number of sheep.....	68
Number of hogs.....	74
Personal property.....	\$655,243

CARVER COUNTY.

(Population 1890, 16,532; County seat, Chaska.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	39,758	Bushels..... 938,646	23.60	40,569
Oats.....	7,867	"..... 410,034	52.10	7,630
Corn.....	11,518	"..... 410,884	35.70	11,770
Barley.....	326	"..... 11,775	36.10	370
Rye.....	707	"..... 18,900	26.60	1,064
Buckwheat.....	6	"..... 182	30.30	3
Potatoes.....	1,089	"..... 104,325		1,111
Beans.....	8	"..... 65		4
Sugar cane.....	134	Syrup, gallons 12,843		37
Cultivated hay.....	1,902	Tons..... 2,581		1,910
Flax seed.....	19	Bushels..... 85	4.50	10
Other products.....	159			205
Total acres cultivated.....	63,493			64,743
Acres increase in 1892.....	1,250			

MISCELLANEOUS, 1891.

Wild hay tons.....	21,494	Maple syrup, gallons, 1892.....	678
Timothy seed, bushels.....	1	Butter, pounds.....	546,462
Clover seed, bushels.....	6	Cheese, pounds.....	8,248
Apple trees, growing.....	4,577	Wool, pounds, fall 1891.....	3,420
Apple trees, bearing.....	2,018	Wool, pounds, spring 1892.....	23,070
Apples, bushels.....	2,329	Land surface, acres, 1892.....	226,652.28
Grape vines, bearing.....	3,466	Water surface, acres, 1892.....	14,307.30
Grapes, pounds.....	9,945	No. of cheese factories, 1892.....	1
Tobacco, pounds.....	226	No. of creameries, 1892.....	2
Bees, number of hives.....	337	No. of farms, 1892.....	1,677
Honey, pounds.....	2,395		

FARM STOCK, 1892.

Number of milch cows.....	8,656
Number of horses, all ages.....	5,671
Number of cattle, all ages, including milch cows.....	16,307
Number of sheep.....	4,425
Number of hogs.....	6,159
Personal property.....	\$858,864

CASS COUNTY.

Population, 1890, 1,247.

FARM STOCK, 1892.

Number of milch cows.....	420
Number of horses, all ages.....	371
Number of cattle, all ages, including milch cows.....	1,167
Number of sheep.....	384
Number of hogs.....	83
Personal property.....	\$128,969

CHIPPEWA COUNTY.

Population, 1890, 8,555; County seat, Montevideo.

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres 1892.
Wheat.....	36,165	Bushels..... 835,759	23.10	54,064
Oats.....	9,840	"..... 289,553	30.00	10,905
Corn.....	2,611	"..... 44,039	18.70	2,218
Barley.....	1,222	"..... 31,373	25.70	2,342
Rye.....	23	"..... 180	7.80	10
Buckwheat.....	.....	".....	.....	1
Potatoes.....	197	"..... 15,227	.....	201
Beans.....	1	"..... 5	.....	5
Sugar cane.....	11	Syrup, gall's..... 176	.....	8
Cultivated hay.....	1,195	Tons..... 1,597	.....	1,196
Flax seed.....	5,299	Bushels..... 44,100	8.30	1,823
Other products.....	32	.....	.....	60
Total acres cultivated.....	56,426	.....	.....	72,773
Acres increase in 1892.....	16,347	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	20,534	Maple syrup, gallons, 1892.....	25
Timothy seed, bushels.....	118	Butter, pounds.....	98,430
Clover seed, bushels.....	2	Cheese, pounds.....	4,755
Apple trees, growing.....	1,062	Wool, pounds, fall 1891.....	1,529
Apple trees, bearing.....	236	Wool, pounds, spring 1892.....	3,241
Apples, bushels.....	130	Land surface, acres, 1892.....	370,289.93
Grape vines, bearing.....	23	Water surface, acres, 1892.....	10,027.23
Grapes, pounds.....	2	Number of cheese factories, '92.....	1
Bees, number of hives.....	22	Number of farms, 1892.....	285
Honey, pounds.....	300	.....	.....

FARM STOCK, 1892.

Number of milch cows.....	4,902
Number of horses, all ages.....	1,449
Number of cattle, all ages, including milch cows.....	9,741
Number of sheep.....	3,291
Number of hogs.....	1,565
Personal property.....	\$690,572

CHISAGO COUNTY.

(Population, 1890, 10,359; county seat, Centre City.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	7,468	Bushels..... 132,478	17.70	8,447
Oats.....	6,433	"..... 254,778	39.60	7,759
Corn.....	2,314	"..... 54,366	23.50	2,350
Barley.....	200	"..... 4,949	24.70	299
Rye.....	887	"..... 13,815	15.60	907
Buckwheat.....	46	"..... 745	16.30	41
Potatoes.....	4,474	"..... 562,641	.....	4,616
Beans.....	70	"..... 996	.....	59
Sugar cane.....	9	Syrup, gallons..... 794	.....	6
Cultivated hay.....	5,283	Tons..... 6,952	.....	5,080
Flax seed.....	.....	Bushels.....	.....	1
Other products.....	78	.....	.....	73
Total acres cultivated.....	27,260	.....	.....	29,638
Acres increase in 1892.....	2,378	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, ton.....	12,180	Honey, pounds	9,683
Timothy seed, bushels.....	59	Maple syrup, gallons, 1892.....	173
Clover seed, bushels.....	115	Butter, pounds	280,962
Apple trees, growing.....	2,006	Cheese, pounds	1,687
Apple trees, bearing.....	773	Wool, pounds, fall 1891.....	4,636
Apples, bushels.....	579	Wool, pounds, spring 1892.....	10,891
Grape vines, bearing.....	29	Land surface, acres, 1892.....	209,451.12
Grapes, pounds.....	50	Water surface, acres, 1892.....	19,611.38
Tobacco, pounds.....	50	Number of creameries, 1892.....	2
Bees, number of hives.....	288	Number of farms, 1892.....	1,276

FARM STOCK, 1892.

Number of milch cows.....	6,573
Number of horses, all ages.....	3,173
Number of cattle, all ages, including milch cows.....	12,962
Number of sheep.....	3,806
Number of hogs.....	1,997
Personal property.....	\$683,606

CLAY COUNTY.

(Population, 1890, 11,517; County seat, Moorhead.)

AGRICULTURE.

	Acres, 1892.
Wheat.....	137,857
Oats.....	28,492
Corn.....	427
Barley.....	2,991
Rye.....	17
Buckwheat.....	49
Potatoes.....	1,120
Beans.....	13
Cultivated hay.....	1,488
Flax seed.....	206
Other products.....	73
Total acres cultivated.....	173,733

MISCELLANEOUS, 1892.

Wool, pounds, spring, 92.....	16,966	Number of creameries, 1892.....	1
Land surface, acres, 1892.....	668,124.66	Number of farms, 1892.....	1,588
Water surface, acres, 1892.....	14,964.16		

FARM STOCK, 1892.

Number of milch cows.....	6,541
Number of horses, all ages.....	7,443
Number of cattle, all ages, including milch cows.....	12,943
Number of sheep.....	8,137
Number of hogs.....	2,100
Personal property.....	\$932,339

COTTONWOOD COUNTY.

(Population 1890, 7,412; County seat, Windom.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	45,809	Bushels..... 825,831	18.00	49,654
Oats.....	25,451	"..... 903,584	35.50	26,669
Corn.....	6,120	"..... 186,483	30.50	3,868
Barley.....	4,982	"..... 151,946	30.50	6,931
Rye.....	50	"..... 305	6.10	
Buckwheat.....	44	"..... 900	20.50	14
Potatoes.....	471	"..... 21,171		515
Beans.....	38	"..... 190		
Sugar cane.....	10	Syrup, gallons.....		
Cultivated hay.....	3,484	Tons..... 4,406		4,084
Flax seed.....	14,372	Bushels..... 125,762	8.80	8,013
Other products.....	56			26
Total acres cultivated.....	100,968			99,773

MISCELLANEOUS, 1891.

Wild hay, tons.....	24,855	Butter, pounds.....	200,725
Timothy seed, bushels.....	300	Cheese, pounds.....	100
Clover seed, bushels.....	2	Wool, pounds, fall '91.....	76,033
Apple trees, growing.....	862	Wool, pounds, spring '92.....	127,010
Apple trees, bearing.....	189	Land surface, acres, 1892.....	407,594.35
Apples, bushels.....	8	Water surface, acres, 1892.....	8,655.65
Bees, number of hives.....	70	Number of cheese factories, '92.....	1
Honey, pounds.....	1,400	Number of farms, 1892.....	1,395

FARM STOCK, 1892.

Number of milch cows.....	5,564
Number of horses, all ages.....	5,097
Number of cattle, all ages, including milch cows.....	11,002
Number of sheep.....	24,563
Number of hogs.....	2,230
Personal property.....	\$667,262

CROW WING COUNTY.

(Population, 1890, 8,852; County seat, Brainerd.)

FARM STOCK, 1892.

Number of milch cows.....	1,001
Number of horses, all ages.....	
Number of cattle, all ages, including milch cows.....	3,036
Number of sheep.....	430
Number of hogs.....	481
Personal property.....	\$657,025

DAKOTA COUNTY.

(Population, 1890, 20,240; County seat, Hastings.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	1,287	Bushels..... 24,138	18.80	2,636
Oats.....	7,737	"..... 207,547	26.80	7,616
Corn.....	1,878	"..... 29,247	15.60	1,676
Barley.....	229	"..... 7,390	32.30	455
Rye.....	214	"..... 4,195	19.60	262
Buckwheat.....	112	"..... 1,691	15.10	88
Potatoes.....	257	"..... 33,783		307
Beans.....	13	"..... 160		3
Sugar cane.....	2	Syrup, gallons, 108		
Cultivated hay.....	2,925	Tons..... 3,382		2,348
Flax seed.....	751	Bushels..... 14,154	18.60	
Other products.....	10			97
Total acres cultivated.....	15,415			15,478
Acres increase in 1892.....	63			

MISCELLANEOUS, 1891.

Wild hay, tons.....	965	Wool, pounds, fall '91.....	1,555
Clover seed, bushels.....	10	Wool, pounds, spring '92.....	3,893
Bees, number of hives.....	32	Land surface, acres, 1892.....	387,753.96
Honey, pounds.....	108	Water surface, acres, 1892.....	3,488.61
Butter, pounds.....	50,488	Number of farms, 1892.....	224

FARM STOCK, 1892.

Number of milch cows.....	10,124
Number of horses, all ages.....	8,522
Number of cattle, all ages, including milch cows.....	18,312
Number of sheep.....	9,005
Number of hogs.....	5,649
Personal property.....	\$,519,080

DODGE COUNTY,
(Population, 1890, 10,864; County seat, Mantorville.)
AGRICULTURE.

Product.	Acres. 1891.	Yield, 1891.	Yield per acre.	Acres. 1892.
Wheat.....	7,596	Bushels..... 112,828	15.60	10,092
Oats.....	22,390	"..... 580,498	25.90	15,708
Corn.....	9,390	"..... 201,874	21.50	6,325
Barley.....	14,593	"..... 278,922	19.10	13,603
Rye.....	908	"..... 18,025	19.90	2,260
Buckwheat.....	839	"..... 3,450	10.20	517
Potatoes.....	867	"..... 44,253		811
Beans.....	13	"..... 42		5
Sugar cane.....	4	Syrup, gal'ns..... 230		
Cultivated hay.....	16,195	Tons..... 23,240		18,652
Flax seed.....	14,751	Bushels..... 156,617	10.60	11,097
Other products.....	179			77
Total acres cultivated.....	86,725			78,653

MISCELLANEOUS, 1891.

Wild hay, tons.....	7,071	Butter, pounds.....	853,430
Timothy seed, bushels.....	27,096	Cheese, pounds.....	72,300
Clover seed.....	45	Wool, pounds, fall '91.....	11,515
Apple trees, growing.....	3,496	Wool, pounds, spring '92.....	15,367
Apple trees, bearing.....	1,649	Land surface, acres, 1892.....	279,956.47
Apples, bushels.....	970	Water surface, acres, 1892.....	782.43
Grape vines, bearing.....	92	Number of cheese factories, '92.....	2
Grapes, pounds.....	316	Number of creameries, 1892.....	3
Bees, number of hives.....	261	Number of farms, 1892.....	371
Honey, pounds.....	9,579		

FARM STOCK, 1892.

Number of milch cows.....	9,745
Number of horses, all ages.....	6,856
Number of cattle, all ages, including milch cows.....	18,202
Number of sheep.....	5,185
Number of hogs.....	4,036
Personal property.....	\$954,360

DOUGLAS COUNTY.

(Population, 1890, 14,606, County seat, Alexandria.)
AGRICULTURE.

Product.	Acres 1891.	Yield, 1891.	Yield, per acre.	Acres, 1892.
Wheat.....	68,268	Bushels..... 1,490,327	21.80	74,561
Oats.....	13,693	"..... 530,564	38.70	14,602
Corn.....	2,746	"..... 87,018	31.60	2,404
Barley.....	770	"..... 27,611	35.90	1,330
Rye.....	64	"..... 1,596	24.90	97
Buckwheat.....	5	"..... 50	10.00	58
Potatoes.....	869	"..... 108,448		911
Beans.....	6	"..... 63		5
Sugar cane.....	2	Syrup, gal'ns..... 121		1
Cultivated hay.....	2,065	Tons..... 3,078		2,305
Flax seed.....	131	Bushels..... 1,139	8.70	6
Other products.....	118			212
Total acres cultivated.....	88,757			96,582
Acres increase in 1892.....	7,825			

MISCELLANEOUS, 1891.

Wild hay, tons.....	41,630	Maple syrup, gallons.....	216
Timothy seed, bushels.....	170	Butter, pounds.....	416,704
Clover seed, bushels.....	68	Cheese, pounds.....	3,528
Apple trees, growing.....	2,826	Wool, pounds, fall '91.....	10,019
Apple trees, bearing.....	590	Wool, pounds, spring '92.....	22,218
Apples, bushels.....	314	Land surface, acres, 1892.....	401,014.74
Grape vines, bearing.....		Water surface, acres, 1892.....	61,485.83
Grapes, pounds.....		Number of cheese factories, 1892.....	
Tobacco, pounds.....		Number of creameries, 1892.....	
Bees, number of hives.....	40	Number of farms, 1892.....	1,882
Honey, pounds.....	600		

FARM STOCK, 1892.

Number of milch cows.....	7,140
Number of horses, all ages.....	6,893
Number of cattle, all ages, including milch cows.....	13,992
Number of sheep.....	5,920
Number of hogs.....	2,823
Personal property.....	\$1,090,508

FARIBAULT COUNTY.

(Population 1890, 16,708; County seat, Blue Earth City.)

FARM STOCK, 1892.

Number of milch cows.....	12,138
Number of horses, all ages.....	10,838
Number of cattle, all ages, including milch cows.....	24,011
Number of sheep.....	5,618
Number of hogs.....	8,559
Personal property.....	\$1,349,768

FILLMORE COUNTY.

(Population 1890, 25,966; County seat, Preston.)

AGRICULTURE.

Product.	Acres. 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	13,723	Bushels..... 189,040	13.80	15,398
Oats.....	58,729	"..... 1,985,234	33.80	63,879
Corn.....	42,866	"..... 1,365,027	31.70	41,315
Barley.....	31,419	"..... 716,731	22.80	31,267
Rye.....	1,692	"..... 27,901	16.50	2,343
Buckwheat.....	1,185	"..... 12,372	10.50	534
Potatoes.....	1,628	"..... 140,934		1,487
Beans.....	41	"..... 706		100
Sugar cane.....	59	Syrup, gal.. 5,382		26
Cultivated hay.....	37,841	Tons..... 49,686		45,130
Flax seed.....	29,188	Bushels..... 346,962	11.90	24,726
Other products.....	14,897			10,841
Total acres cultivated.....	233,268			237,016
Acres increase in 1892.....	3,778			

MISCELLANEOUS, 1891.

Wild hay, tons.....	5,263	Maple syrup, gallons, 1892.....	82
Timothy seed, bushels.....	53,133	Butter, pounds.....	1,271,866
Clover seed, bushels.....	3,162	Cheese, pounds.....	23,000
Apple trees, growing.....	29,710	Wool, pounds, fall 1891.....	9,206
Apple trees, bearing.....	17,697	Wool, pounds, spring 1892.....	34,543
Apples, bushels.....	9,818	Land surface, acres, 1892.....	553,101.90
Grape vines, bearing.....	1,248	Water surface, acres, 1892.....	1,912.54
Grapes, pounds.....	4,644	No. of cheese factories, 1892.....	
Tobacco, pounds.....	27,650	Number of creameries, 1892.....	
Bees, number of hives.....	964	Number of farms, 1892.....	
Honey, pounds.....	14,168		

FARM STOCK, 1892.

Number of milch cows.....	17,692
Number of horses, all ages.....	14,301
Number of cattle, all ages, including milch cows.....	32,945
Number of sheep.....	7,396
Number of hogs.....	15,481
Personal property.....	\$2 195,367

FREEBORN COUNTY.

(Population, 1890, 17,962; County seat, Albert Lea.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	34,414	Bushels..... 612,000	17.80	43,476
Oats.....	27,328	"..... 1,005,364	36.80	36,776
Corn.....	21,107	"..... 572,637	27.10	21,100
Barley.....	6,129	"..... 203,208	33.20	13,646
Rye.....	148	"..... 3,033	20.80	411
Buckwheat.....	59	"..... 887	15.10	89
Potatoes.....	2,144	"..... 167,633		2,154
Beans.....	6	"..... 155		19
Sugar cane.....	11	Syrup, gal'ns..... 752		13
Cultivated hay.....	6,708	Tons..... 10,005		9,407
Flax seed.....	7,076	Bushels..... 68,033	9.60	3,713
Other products.....	328			268
Total acres cultivated.....	105,452			131,072
Acres increase in 1892.....	25,620			

MISCELLANEOUS, 1891.

Wild hay, tons.....	47,961	Honey, pounds.....	5,999
Timothy seed, bushels.....	3,675	Butter, pounds.....	913,080
Clover seed, bushels.....	701	Cheese, pounds.....	19,000
Apple trees, growing.....	12,370	Wool, pounds, fall '91.....	5,377
Apple trees, bearing.....	5,853	Wool, pounds, spring '92.....	13,752
Apples, bushels.....	3,373	Land surface, acres, 1892.....	449,212.53
Grape vines, bearing.....	590	Water surface, acres, 1892.....	13,271.87
Grapes, pounds.....	2,546	Number of creameries, 1892.....	15
Bees, number of hives.....	778	Number of farms, 1892.....	1,744

FARM STOCK, 1892.

Number of milch cows.....	17,923
Number of horses, all ages.....	10,195
Number of cattle, all ages, including milch cows.....	33,601
Number of sheep.....	4,342
Number of hogs.....	9,156
Personal property.....	\$1,227,142

GOODHUE COUNTY.

(Population, 1890, 28,806; County seat, Red Wing.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	53,629	Bushels..... 894,124	16.70	58,303
Oats.....	44,789	"..... 1,584,374	35.40	41,629
Corn.....	22,425	"..... 611,720	27.30	20,497
Barley.....	43,632	"..... 1,463,611	33.50	56,472
Rye.....	6,359	"..... 113,455	17.80	13,492
Buckwheat.....	292	"..... 3,613	12.40	343
Potatoes.....	1,811	"..... 188,155		1,328
Beans.....	301	"..... 3,662		191
Sugar cane.....	127	Syrup, gal'ns..... 12,966		258
Cultivated hay.....	43,787	Tons..... 46,881		35,073
Flax seed.....	15,123	Bushels..... 148,390	9.80	8,094
Other products.....	1,632			1,432
Total acres cultivated.....	233,305			238,062
Acres increase in 1892.....	4,757			

MISCELLANEOUS, 1891.

Wild hay.....	17,735	Butter, pounds.....	991,755
Timothy seed, bushels.....	5,277	Cheese, pounds.....	114,735
Clover seed, bushels.....	612	Wool, pounds, fall '91.....	39,901
Apple trees, growing.....	23,015	Wool, pounds, spring '92.....	50,796
Apple trees, bearing.....	9,187	Land surface, acres, 1892.....	489,329.56
Apples, bushels.....	4,867	Water surface, acres, 1892.....	12,936.06
Grape vines, bearing.....	1,659	Number of cheese factories, 1892.....	4
Grapes, pounds.....	6,835	Number of creameries, 1892.....	8
Bees, number of hives.....	778	Number of farms, 1892.....	2,199
Honey, pounds.....	12,804		

FARM STOCK, 1892.

Number of milch cows.....	18,192
Number of horses, all ages.....	12,016
Number of cattle, all ages, including milch cows.....	29,481
Number of sheep.....	8,848
Number of hogs.....	8,460
Personal property.....	\$2,615,969

GRANT COUNTY.

(Population, 1890, 6,875; County seat, Elbow Lake.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat	49,279	Bushels 551,517	11.20	57,817
Oats	6,604	" 206,952	31.30	8,191
Corn	283	" 4,228	14.90	142
Barley	505	" 16,580	32.80	865
Rye		" 39,933		2
Potatoes		" 39,933		243
Beans	449			
Cultivated hay	522	Tons 357		150
Flax seed	22	Bushels 252	10.10	
Other products				3
Total acres cultivated	57,664			66,922
Acres increase in 1892	9,258			

MISCELLANEOUS, 1891.

Wild hay, tons.....	5,766	Cheese, pounds.....	770
Timothy seed, bushels.....	40	Wool, pounds, fall '91.....	2,344
Apple trees, growing.....	390	Wool, pounds, spring '92.....	68
Apple trees, bearing.....	195	Land surface, acres, 1892.....	384,256.21
Apples, bushels.....	106	Water surface 1892.....	11,848.03
Butter, pounds.....	153,993		

FARM STOCK, 1892.

Number of milch cows.....	4,282
Number of horses, all ages.....	5,175
Number of cattle, all ages, including milch cows.....	8,580
Number of sheep.....	3,195
Number of hogs.....	1,464
Personal property.....	\$592,744

HENNEPIN COUNTY.

(Population 1890, 185,294; County seat, Minneapolis.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat	20,614	Bushels..... 443,858	21.30	25,360
Oats	21,188	" 838,336	39.60	22,706
Corn	15,837	" 469,132	29.00	14,912
Barley	305	" 10,148	33.30	504
Rye	833	" 15,047	18.10	1,213
Buckwheat.....	53	" 767	14.50	44
Potatoes.....	6,413	" 752,867		6,517
Beans	137	" 1,319		124
Sugar cane	70	Syrup, gal..... 6,449		47
Cultivated hay.....	12,198	Tons 11,782		10,462
Flax seed	10	Bushels..... 80	8.00	26
Other products.....	2,286			2,488
Total acres cultivated.....	80,143			84,403
Acres increase in 1892.....	4,260			

MISCELLANEOUS, 1891.

Wild hay, tons.....	29,484	Maple syrup, gallons, 1892.....	1,079
Timothy seed, bushels.....	9	Butter, pounds.....	604,738
Clover seed, bushels.....	676	Cheese, pounds.....	18,710
Apple trees, growing.....	11,883	Wool, pounds, fall 1891.....	3,901
Apple trees, bearing.....	4,992	Wool, pounds, spring 1892.....	20,782
Apples, bushels.....	3,833	Land surface, acres, 1892.....	352,918.77
Grape vines, bearing.....	3,403	Water surface, acres, 1892.....	44,821.20
Tobacco, pounds.....	36,835	No. of cheese factories, 1892.....	
Bees, number of hives.....	315	Number of creameries, 1892.....	
Honey, pounds.....	1,074	Number of farms, 1892.....	1,639
	17,525		

FARM STOCK, 1892.

Number of milch cows.....	13,242
Number of horses, all ages.....	17,158
Number of cattle, all ages, including milch cows.....	17,558
Number of sheep.....	4,073
Number of hogs.....	5,445
Personal property.....	\$21,262,745

HOUSTON COUNTY.

(Population, 1890, 14,653; County seat, Caledonia.)

AGRICULTURE.

Products.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	12,102	Bushels..... 181,562	15.00	13,571
Oats.....	32,342	"..... 854,006	26.40	35,465
Corn.....	27,066	"..... 793.6x2	29.30	26,834
Barley.....	3,251	"..... 76,608	23.60	4,487
Rye.....	1,437	"..... 18,214	12.70	1,278
Buckwheat.....	300	"..... 4,440	14.50	380
Potatoes.....	1,387	"..... 138,604		1,449
Beans.....	78	"..... 961		92
Sugar cane.....	58	Syrup, g'alls..... 2,810		60
Cultivated hay.....	20,085	Tons..... 25,069	13.20	20,446
Flax seed.....	2,128	Bushels..... 28,170		1,502
Other products.....	1,761			1,601
Total acres cultivated.....	101,973			106,165
Acres increase in 1892.....	4,192			

MISCELLANEOUS, 1891.

Wild hay, tons.....	4,516	Maple syrup, gallons, 1892.....	1,037
Timothy seed, bushels.....	1,457	Butter, pounds.....	628,650
Clover seed, bushels.....	519	Cheese, pounds.....	4,340
Apple trees, growing.....	13,301	Wool, pounds, fall '91.....	8,385
Apple trees, bearing.....	7,715	Wool, pounds, spring '92.....	22,201
Apples, bushels.....	10,334	Land surface, acres, 1892.....	363,998.07
Grape vines, bearing.....	14,976	Water surface, acres, 1892.....	7,104.17
Grapes, pounds.....	132,531	Number of cheese factories, 1892.....	
Tobacco, pounds.....	500	Number of creameries, 1892.....	2
Bees, number of hives.....	515	Number of farms, 1892.....	1,342
Honey, pounds.....	7,870		

FARM STOCK, 1892.

Number of milch cows.....	11,030
Number of horses, all ages.....	7,214
Number of cattle, all ages, including milch cows.....	22,267
Number of sheep.....	3,953
Number of hogs.....	13,435
Personal property.....	\$1,162,229

HUBBARD COUNTY.

(Population, 1890, 1,412; County seat, Park Rapids.)

AGRICULTURE.

PRODUCT.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	10,000	Bushels..... 225,000	22.50	11,000
Oats.....	1,800	"..... 45,000	25.00	1,600
Corn.....	300	"..... 9,000	30.00	200
Barley.....	180	"..... 5,060	31.30	190
Rye.....	140	"..... 4,001	26.90	87
Buckwheat.....	1	"..... 21	21.00	2
Potatoes.....	100	"..... 10,000		100
Beans.....	2	"..... 6		8
Cultivated hay.....	100	Tons..... 120		200
Other products.....	25			13
Total acres cultivated.....	12,637			13,409
Acres increase in 1892.....	772			

MISCELLANEOUS, 1891.

Wild hay, tons.....	75	Wool, pounds, fall '91.....	70
Timothy seed, bushels.....	3	Wool, pounds, spring '92.....	352
Apple trees, growing.....	400	Land surface, acres, 1892.....	334,622.97
Apple trees, bearing.....	5	Water surface, acres, 1892.....	40,045.25
Butter, pounds.....	13,562	Number of farms, 1892.....	200

FARM STOCK, 1892.

Number of milch cows.....	552
Number of horses, all ages.....	923
Number of cattle, all ages, including milch cows.....	1,277
Number of sheep.....	365
Number of hogs.....	415
Personal property.....	\$157,553

ISANTI COUNTY.

(Population, 1890, 7,607; County seat, Cambridge.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	5,104	Bushels..... 73,872	14.20	6,645
Oats.....	7,498	"..... 209,738	28.00	8,498
Corn.....	4,527	"..... 102,834	22.70	4,296
Barley.....	36	"..... 655	18.20	115
Rye.....	2,051	"..... 24,591	12.00	2,431
Buckwheat.....	98	"..... 1,574	16.10	290
Potatoes.....	4,972	"..... 611,973		4,789
Beans.....	303	"..... 2,997		486
Sugar cane.....	43	Syrup, gal's..... 1,203		251
Cultivated hay.....	2,460	Tons..... 2,460		1,851
Other products.....	69			138
Total acres cultivated.....	27,337			29,780
Acres increase in 1892.....	2,450			

MISCELLANEOUS, 1891.

Wild hay, tons.....	14,378	Honey, pounds.....	840
Timothy seed, bushels.....	68	Maple syrup, gallons, 1892.....	30
Clover seed, bushels.....	5	Butter, pounds.....	238,017
Apple trees, growing.....	1,241	Cheese, pounds.....	1,315
Apple trees, bearing.....	710	Wool, pounds, fall '91.....	10,215
Apples, bushels.....	260	Wool, pounds, spring '92.....	16,788
Grape vines, bearing.....	3	Land surface, acres, 1892.....	266,629.79
Grapes, pounds.....	11	Water surface, acres, 1892.....	26,395.86
Tobacco, pounds.....	20	Number of farms, 1892.....	1,271
Bees; number of hives.....	55		

FARM STOCK, 1892.

Number of milch cows.....	4,005
Number of horses, all ages.....	2,510
Number of cattle, all ages, including milch cows.....	9,183
Number of sheep.....	4,290
Number of hogs.....	1,302
Personal property.....	\$343,113

ITASCA COUNTY.

(Population 1890, 743.)

FARM STOCK, 1892.

Number of milch cows.....	45
Number of horses, all ages.....	267
Number of cattle, all ages, including milch cows.....	621
Number of hogs.....	88
Personal property.....	\$101,800

JACKSON COUNTY.

(Population 1890, 8,924; County seat, Jackson.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	5,624	Bushels..... 92,094	16.40	6,587
Oats.....	3,722	"..... 113,332	30.40	3,509
Corn.....	1,015	"..... 41,113	21.50	1,588
Barley.....	1,514	"..... 35,013	23.10	2,025
Rye.....	16	"..... 118	7.40	30
Buckwheat.....	11	"..... 146	13.30	39
Potatoes.....	107	"..... 6,229		105
Sugar cane.....	2	Syrup, gal..... 74		101
Cultivated hay.....	155	Tons..... 237		506
Flax seed.....	2,549	Bushels..... 26,350	10.30	1,806
Other products.....				14
Total acres cultivated.....	15,615			16,399
Acres increase in 1892.....	784			

MISCELLANEOUS, 1891.

Wild hay, tons.....	3,275	Honey, pounds.....	200
Timothy seed, bushels.....	106	Butter, pounds.....	31,850
Apple trees, growing.....	677	Wool, pounds, fall 1891.....	1,240
Apple trees, bearing.....	119	Wool, pounds, spring 1892.....	4,336
Apples, bushels.....	64	Land surface, acres, 1892.....	446,066.45
Grape vines, bearing.....	6	Water surface, acres, 1892.....	16,434.75
Bees, number of hives.....	10	Number of farms, 1892.....	26

FARM STOCK, 1892.

Number of milch cows.....	7,746
Number of horses, all ages.....	6,754
Number of cattle, all ages, including milch cows.....	16,899
Number of sheep.....	11,114
Number of hogs.....	3,256
Personal property.....	\$647,655

KANABEC COUNTY.

(Population, 1,579; County seat, Mora.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	350	Bushels..... 5,192	14.80	460
Oats.....	264	"..... 8,226	31.20	526
Corn.....	50	"..... 1,457	29.10	42
Barley.....	19	"..... 504	26.50	22
Rye.....	256	"..... 5,116	20.00	190
Buckwheat.....	1	"..... 5	5.00	6
Potatoes.....	141	"..... 14,010		170
Beans.....	10	"..... 131		11
Cultivated hay.....	497	Tons..... 633		274
Other products.....	28			25
Total acres cultivated.....	1,616			1,726
Acres increase in 1892.....	110			

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MISCELLANEOUS, 1891.

Wild hay, tons	1,326	Cheese, pounds.....	306
Apple trees, growing.....	63	Wool, pounds, fall '91.....	988
Apple trees, bearing.....	18	Wool, pounds, spring '92.....	988
Apples, bushels.....	9	Land surface, acres, 1892.....	337,535.80
Tobacco, pounds.....	20	Water surface, acres, 1892.....	9,836.41
Butter, pounds.....	35,870	Number of farms, 1892.....	188

FARM STOCK, 1892.

Number of milch cows.....	602
Number of horses, all ages.....	308
Number of cattle, all ages, including milch cows.....	1,403
Number of sheep.....	499
Number of hogs.....	214
Personal property.....	\$61,080

KANDIYOHI COUNTY.

(Population 1890, 13,997; County seat, Willmar.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat	74,070	Bushels..... 1,217,296	16.40	78,551
Oats	15,506	"..... 451,918	29.10	15,793
Corn	4,040	"..... 96,766	24.40	3,091
Barley.....	1,436	"..... 37,618	26.20	2,307
Rye.....	18	"..... 277	15.40	56
Buckwheat.....	4	"..... 40	10.00	.....
Potatoes.....	432	"..... 33,510	.....	540
Beans.....	.....	.....	.....	1
Sugar cane.....	3	Syrup, gal..... 200	.....	1
Cultivated hay.....	1,302	Tons..... 1,897	.....	1,030
Flax seed.....	2,865	Bushels..... 25,442	8.90	1,212
Other products.....	104	.....	.....	126
Total acres cultivated.....	99,770	.....	.....	103,218
Acres increase in 1892.....	3,448	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	68,856	Butter, pounds.....	325,007
Timothy seed, bushels.....	116	Cheese, pounds.....	100
Apple trees, growing.....	2,631	Wool, pounds, fall 1891.....	4,339
Apple trees, bearing.....	855	Wool, pounds, spring 1892.....	26,567
Apples, bushels.....	513	Land surface, acres, 1892.....	497,101.35
Grape vines, bearing.....	50	Water surface, acres, 1892.....	57,897.69
Grapes, pounds.....	277	No. of cheese factories, 1892.....	2
Bees, number of hives.....	184	Number of creameries, 1892.....	4
Honey, pounds.....	4,074	Number of farms, 1892.....	1,707

FARM STOCK, 1892.

Number of milch cows.....	10,230
Number of horses, all ages.....	8,708
Number of cattle, all ages, including milch cows.....	22,152
Number of sheep.....	6,257
Number of hogs.....	1,836
Personal property.....	\$1,168,391

KITTSOON COUNTY.

(Population 1890, 5,387; County seat, Hallock.)

FARM STOCK, 1892.

Number of milch cows.....	3,262
Number of horses, all ages.....	4,881
Number of cattle, all ages, including milch cows.....	7,458
Number of sheep.....	1,832
Number of hogs.....	1,008
Personal property.....	\$468,147

LAO QUI PARLE COUNTY.

(Population, 1890, 10,382; County seat, Madison.)

AGRICULTURE.

Product.	Acres. 1891.	Yield, 1891.	Yield per acre.	Acres 1892.
Wheat.....	125,000	Bushels .....2,500,000	20.00	140,000
Oats.....	25,000	" 800,000	32.00	27,000
Corn.....	11,000	" 22,000	2.00	10,000
Barley.....	1,500	" 45,000	30.00	3,000
Potatoes.....	1,000	" 50,000	.....	1,100
Beans.....	20	" 500	.....	20
Cultivated hay.....	2,000	Tons 4,000	.....	2,300
Flax seed.....	3,000	Bushels 30,000	10.00	1,500
Other products.....	100	.....	.....	100
Total acres cultivated.....	168,620	.....	.....	163,220
Acres increase in 1892.....	16,600	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	55,000	Cheese, pounds.....	2,000
Timothy seed, bushels.....	800	Wool, pounds, fall 1891.....	12,000
Apple trees, growing.....	2,500	Wool, pounds, spring 1892.....	15,000
Apple trees, bearing.....	250	Land surface, acres, 1892.....	492,409.93
Apples, bushels.....	75	Water surface, acres, 1892.....	1,237.57
Grape vines, bearing.....	250	Number of cheese factories, '92.....	1
Grapes, pounds.....	250	Number of creameries, 1892.....	3
Bees, number of hives.....	35	Number of farms, 1892.....	1,700
Honey, pounds.....	1,000		

FARM STOCK, 1892.

Number of milch cows.....	6,442
Number of horses, all ages.....	1,862
Number of cattle, all ages, including milch cows.....	13,074
Number of sheep.....	3,540
Number of hogs.....	2,727
Personal property.....	\$1,047,601

LAKE COUNTY.

(Population, 1890, 1,290; County seat, Two Harbors.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	1	Bushels 30	30.00	.....
Oats.....	3	" 130	43.30	3
Corn.....	3	" 106	35.30	.....
Barley.....	.....	.....	.....	4
Rye.....	.....	.....	.....	1
Potatoes.....	7	" 735	.....	6
Cultivated hay.....	93	Tons 138	.....	94
Other products.....	3	.....	.....	4
Total acres cultivated.....	110	.....	.....	112
Acres increase in 1892.....	2	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	6	Land surface, acres, 1892.....	1,328,904.43
Butter, pounds.....	900	Water surface, acres, 1892.....	206,420.00
Wool, pounds, spring 1892.....	95		

FARM STOCK, 1892.

Number of milch cows.....	89
Number of horses, all ages.....	19
Number of cattle, all ages, including milch cows.....	106
Number of sheep.....	41
Number of hogs.....	13
Personal property.....	\$39,496

LE SUEUR COUNTY.

(Population, 1890, 19,057; County seat, Le Sueur Center.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat	10,877	Bushels 223,918	20.60	10,826
Oats	1,732	" 65,093	37.60	1,685
Corn	2,959	" 104,084	35.20	2,792
Barley	73	" 2,766	37.90	60
Rye	8	" 185	23.10	8
Potatoes	242	" 27,136		237
Beans	10	" 85		5
Sugar cane	8	Syrup, gal's.. 967		5
Cultivated hay	69	Tons 138		31
Other products...	100			101
Total acres cultivated	16,068			15,759

MISCELLANEOUS, 1891.

Wild hay, tons.	4,891	Honey, pounds.....	550
Clover seed, bushels.....	12	Butter, pounds.....	50,040
Apple trees, growing.....	313	Wool, pounds, fall '91.....	975
Apple trees, bearing.....	223	Wool, pounds, spring '92.....	1,112
Apples, bushels.....	113	Land surface, acres, 1892.....	284,496.41
Grape vines, bearing.....	208	Water surface, acres, 1892.....	17,951.77
Grapes, pounds.....	1,291	Number of creameries, 1892.....	1
Tobacco, pounds.....	4,890	Number of farms, 1892.....	494
Bees, number of hives.....	61		

FARM STOCK, 1892.

Number of milch cows.....	7,044
Number of horses, all ages.....	1,404
Number of cattle, all ages, including milch cows.....	11,839
Number of sheep.....	2,921
Number of hogs.....	8,431
Personal property.....	\$914,103

LINCOLN COUNTY.

(Population, 1890, 5,691; County seat, Lake Benton.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat	32,866	Bushels 515,750	15.70	45,218
Oats	10,591	" 308,814	29.20	12,157
Corn	3,367	" 45,967	13.30	3,943
Barley	1,520	" 40,961	27.00	3,332
Rye	209	" 1,706	8.20	192
Potatoes	424	" 24,824		427
Beans	1	" 12		1
Cultivated hay	717	Tons..... 696		777
Flax seed.....	14,793	Bushels..... 107,875	7.30	5,606
Other products.....	10			203
Total acres cultivated	64,488			71,866
Acres increase in 1892	7,368			

MISCELLANEOUS, 1891.

Wild hay, tons.	17,932	Butter, pounds.....	237,676
Timothy seed, bushels.....	208	Cheese, pounds.....	152
Apple trees, growing.....	1,485	Wool, pounds, fall '91.....	9,123
Apple trees, bearing.....	239	Wool, pounds, spring '92.....	29,114
Apples, bushels.....	77	Land surface, acres, 1892.....	334,355.00
Grape vines, bearing.....	10	Water surface, acres, 1892.....	12,517.30
Grapes, pounds.....	10	Number of cheese factories, '92.....	1
Tobacco, pounds.....	25	Number of creameries, 1892.....	1
Bees, number of hives.....	1	Number of farms, 1892.....	679
Honey, pounds.....	30		

FARM STOCK, 1892.

Number of milch cows.....	3,461
Number of horses, all ages.....	3,921
Number of cattle, all ages, including milch cows.....	7,566
Number of sheep.....	8,114
Number of hogs.....	1,114
Personal property.....	\$421,490

LYON COUNTY.

(Population 1890, 9,501; County seat, Marshall.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891	Yield, per acre.	Acres, 1892.
Wheat.....	21,319	Bushels..... 414,505	19.40	25,887
Oats.....	6,655	"..... 237,326	35.40	6,626
Corn.....	4,272	"..... 93,430	21.90	3,680
Barley.....	806	"..... 24,443	30.80	1,554
Rye.....	1	"..... 20	20.00	.....
Potatoes.....	149	"..... 12,668	.....	170
Beans.....	4	"..... 22	.....	46
Cultivated hay.....	460	Tons..... 701	.....	441
Flax seed.....	4,489	Bushels..... 49,805	11.10	2,139
Other products.....	58	.....	.....	35
Total acres cultivated.....	38,213	.....	.....	40,778
Acres increase in 1892.....	2,565	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	8,668	Honey, pounds.....	1,100
Timothy seed, bushels.....	370	Butter, pounds.....	123,426
Clover seed, bushels.....	2	Cheese, pounds.....	120
Apple trees, growing.....	2,612	Wool, pounds, fall 1891.....	2,423
Apple trees, bearing.....	706	Wool, pounds, spring 1892.....	7,279
Apples, bushels.....	81	Land surface, acres, 1892.....	454,072.72
Grape vines, bearing.....	414	Water surface, acres, 1892.....	7,150.06
Grapes, pounds.....	3	Number of farms, 1892.....	407
Bees, number of hives.....	52	.....	.....

FARM STOCK, 1892.

Number of milch cows.....	5,231
Number of horses, all ages.....	6,506
Number of cattle, all ages, including milch cows.....	10,066
Number of sheep.....	9,874
Number of hogs.....	2,132
Personal property.....	\$382,722

MCLEOD COUNTY.

(Population, 1890, 17,026; County seat, Glencoe.)

AGRICULTURE.

Products.	Acres, 1891.	Yield, 1891.	Yield, per acre.	Acres, 1892.
Wheat.....	50,354	Bushels..... 1,101,211	21.90	54,241
Oats.....	10,528	"..... 476,448	45.40	10,777
Corn.....	7,069	"..... 259,215	36.70	7,210
Barley.....	599	"..... 19,852	33.10	766
Rye.....	132	"..... 3,273	24.80	165
Buckwheat.....	11	"..... 254	23.10	1
Potatoes.....	723	"..... 74,808	.....	734
Beans.....	17	"..... 404	.....	3
Sugar cane.....	47	Syrup, gallons..... 4,833	.....	38
Cultivated hay.....	1,236	Tons..... 1,609	.....	1,318
Flax seed.....	1,030	Bushels..... 10,368	10.10	278
Other products.....	186	.....	.....	246
Total acres cultivated.....	71,932	.....	.....	75,871
Acres increase in 1892.....	3,939	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	28,810	Maple syrup, gallons, 1892.....	12
Timothy seed, bushels.....	123	Butter, pounds.....	292,661
Clover seed, bushels.....	127	Cheese, pounds.....	5,521
Apple trees, growing.....	2,287	Wool, pounds, fall 1891.....	8,068
Apple trees, bearing.....	823	Wool, pounds, spring 1892.....	14,499
Apples, bushels.....	527	Land surface, acres, 1892.....	310,488.63
Grape vines, bearing.....	254	Water surface, acres, 1892.....	14,283.23
Grapes, pounds.....	241	Number of cheese factories, '92.....	2
Tobacco, pounds.....	480	Number of creameries, 1892.....	4
Bees, number of hives.....	113	Number of farms, 1892.....	698
Honey, pounds.....	909		

FARM STOCK, 1892.

Number of milch cows.....	10,878
Number of horses, all ages.....	8,165
Number of cattle, all ages, including milch cows.....	17,573
Number of sheep.....	4,566
Number of hogs.....	5,201
Personal property.....	\$1,231,003

MARSHALL COUNTY.

(Population, 1890, 9,130; County seat, Warren.)

AGRICULTURE.

Product.	Acres. 1891.	Yield, 1891.	Yield per acre.	Acres. 1892.
Wheat.....	87,113	Bushels..... 1,736,086	19.90	71,967
Oats.....	11,061	"..... 369,490	33.40	9,769
Corn.....	91	"..... 1,070	11.80	126
Barley.....	7,670	"..... 235,086	30.70	9,359
Rye.....	258	"..... 4,864	18.80	336
Buckwheat.....	6	"..... 90	15.00	11
Potatoes.....	647	"..... 65,579		376
Beans.....	8	"..... 240		9
Cultivated hay.....	1,480	Tons..... 2,670		1,278
Flax seed.....	168	Bushels..... 1,700	10.10	200
Other products.....	26			59
Total acres cultivated.....	108,528			93,489

MISCELLANEOUS, 1891.

Wild hay, tons.....	17,397	Wool, pounds, fall 1891.....	5,810
Timothy seed, bushels.....	2,881	Wool, pounds, spring 1892.....	8,947
Apple trees, growing.....	53	Land surface, acres, 1892.....	1,071,129.11
Tobacco, pounds.....	30	Water surface, acres, 1892.....	895.01
Butter, pounds.....	164,785	Number of farms, 1892.....	1,490
Cheese, pounds.....	1,058		

FARM STOCK, 1892.

Number of milch cows.....	4,085
Number of horses, all ages.....	5,221
Number of cattle, all ages, including milch cows.....	10,715
Number of sheep.....	2,957
Number of hogs.....	1,802
Personal property.....	\$609,509

MARTIN COUNTY.

(Population, 1890, 9,403; County seat, Fairmont.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat	24,599	Bushels 378,804	15.40	35,266
Oats	29,998	" 1,108,683	37.10	33,731
Corn	20,133	" 609,716	30.80	18,215
Barley	5,476	" 126,614	21.30	5,896
Rye	109	" 1,963	18.00	174
Buckwheat	238	" 1,429	6.00	78
Potatoes	655	" 56,930		774
Beans	19	" 187		20
Sugar cane	48	Syrup, gallons 3,179		87
Cultivated hay	1,087	Tons 1,869		1,690
Flax seed	21,652	Bushels 217,885	10.10	14,787
Other products	194			205
Total acres cultivated	104,088			110,813
Acres increase in 1892	6,725			

MISCELLANEOUS, 1891.

Wild hay, tons	63,556	Honey, pounds	6,168
Timothy seed, bushels	1,949	Butter, pounds	560,602
Clover seed, bushels	7	Cheese, pounds	3,425
Apple trees, growing	18,433	Wool, pounds, fall 1891	28,751
Apple trees, bearing	4,006	Wool, pounds, spring 1892	23,450
Apples, bushels	1,590	Land surface, acres, 1892	451,021.05
Grape vines, bearing	351	Water surface, acres, 1892	12,667.35
Grapes, pounds	887	Number of creameries, 1892	1
Tobacco, pounds	500	Number of farms, 1892	738
Bees, number of hives	435		

FARM STOCK, 1892.

Number of milch cows	8,058
Number of horses, all ages	8,290
Number of cattle, all ages, including milch cows	16,143
Number of sheep	7,126
Number of hogs	6,890
Personal property	\$797,113

MEEKER COUNTY.

(Population, 1890, 15,436; County seat, Litchfield.)

AGRICULTURE.

Product.	Acres, 1892.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat	71,406	Bushels 1,071,090	15.00	71,406
Oats	22,560	" 1,128,000	50.00	22,560
Corn	6,660	" 264,400	39.70	6,660
Potatoes	2,535	" 227,250		2,525
Total acres cultivated	103,151			103,151

MISCELLANEOUS, 1891.

Land surface, acres, 1892	381,443.02	Water surface, acres, 1892	24,075.56
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FARM STOCK, 1892.

Number of milch cows	8,344
Number of horses, all ages	7,802
Number of cattle, all ages, including milch cows	15,230
Number of sheep	3,327
Number of hogs	2,271
Personal property	\$891,088

MILLE LAOS COUNTY.

(Population, 1890, 2,845; County seat, Princeton.)

AGRICULTURE.

	Acres, 1892.
Wheat.....	1,106
Oats.....	1,640
Corn.....	1,149
Barley.....	225
Rye.....	760
Buckwheat.....	130
Potatoes.....	586
Beans.....	80
Sugar cane.....	10
Cultivated hay.....	255
Other products.....	451
Total acres cultivated.....	6,400

MISCELLANEOUS, 1891.

Maple syrup, gallons, 1892.....	1,614
Wool, pounds, spring '92.....	1,738
Land surface, acres, 1892.....	365,497.65
Water surface, acres, 1892.....	74,945.53
Number of creameries, 1892.....	1
Number of farms, 1892.....	488

FARM STOCK, 1892.

Number of milch cows.....	977
Number of horses, all ages.....	780
Number of cattle, all ages, including milch cows.....	2,151
Number of sheep.....	502
Number of hogs.....	476
Personal property.....	\$195,159

MORRISON COUNTY.

(Population 1890, 13,325; County seat, Little Falls.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	24,320	Bushels..... 396,737	16.30	27,046
Oats.....	8,085	"..... 235,195	29.10	8,704
Corn.....	4,208	"..... 118,309	28.10	4,109
Barley.....	128	"..... 2,480	22.60	311
Rye.....	1,356	"..... 19,071	14.10	2,315
Buckwheat.....	196	"..... 481	2.50	38
Potatoes.....	788	"..... 96,744		739
Beans.....	153	"..... 1,231		45
Sugar cane.....	2	Syrup, gal.... 162		155
Cultivated hay.....	712	Tons..... 924		1,144
Flax seed.....	32	Bushels..... 172	5.40	38
Other products.....	132			234
Total acres cultivated.....	40,112			44,878
Acres increase in 1892.....	4,766			

MISCELLANEOUS, 1891.

Wild hay, tons.....	14,074	Honey, pounds.....	3,120
Timothy seed, bushels.....	31	Maple syrup, gallons, 1892.....	260
Clover seed, bushels.....	363	Butter, pounds.....	203,277
Apple trees, growing.....	735	Cheese, pounds.....	150
Apple trees, bearing.....	296	Wool, pounds, fall 1891.....	3,356
Apples, bushels.....	53	Wool, pounds, spring 1892.....	13,798
Grape vines, bearing.....	39	Land surface, acres, 1892.....	693,454.07
Grape, pounds.....	30	Water surface, acres, 1892.....	3,564.78
Tobacco, pounds.....	928	Number of creameries, 1892.....	1
Bees, number of hives.....	117	Number of farms, 1892.....	839

FARM STOCK, 1892.

Number of milch cows.....	4,786
Number of horses, all ages.....	4,241
Number of cattle, all ages, including milch cows.....	10,062
Number of sheep.....	3,439
Number of hogs.....	2,692
Personal property.....	\$701,018

MOWER COUNTY.

(Population 1890, 18,019; County seat, Austin.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	8,353	Bushels..... 132,296	15 80	9,195
Oats.....	55,076	"..... 2,106,064	38 20	60,167
Corn.....	18,065	"..... 497,647	27 50	11,544
Barley.....	31,971	"..... 1,169,707	36 80	42,702
Rye.....	296	"..... 7,069	17 50	622
Buckwheat.....	746	"..... 11,529	15 50	1,011
Potatoes.....	1,413	"..... 171,533	.....	1,679
Beans.....	10	"..... 234	.....	26
Cultivated hay.....	35,946	Tons..... 48,068	.....	52,901
Flax seed.....	32,759	Bushels..... 405,616	12 40	29,412
Other products.....	5,003	.....	.....	4,820
Total acres cultivated.....	189,738	.....	.....	214,083
Acres increase in 1892.....	24,345	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	26,120	Butter, pounds.....	1,102,968
Timothy seed, bushels.....	195,138	Cheese, pounds.....	3,400
Olover seed, bushels.....	718	Wool, pounds, fall 1891.....	6,822
Apple trees, growing.....	5,005	Wool, pounds, spring 1892.....	30,590
Apple trees, bearing.....	1,839	Land surface, acres, 1892.....	553,803.10
Apples, bushels.....	1,318	Water surface, acres, 1892.....	1,352.65
Grape vines, bearing.....	9	No. of cheese factories, 1892.....	1
Grapes, pounds.....	6	Number of creameries, 1892.....	1
Bees, number of hives.....	270	Number of farms, 1892.....	1,820
Honey, pounds.....	4,137	.....	.....

FARM STOCK, 1892.

Number of milch cows.....	13,069
Number of horses, all ages.....	10,612
Number of cattle, all ages, including milch cows.....	23,619
Number of sheep.....	5,662
Number of hogs.....	5,796
Personal property.....	1,390,677

MURRAY COUNTY.

(Population, 1890, 6,692; County seat, Slayton.)

FARM STOCK, 1892.

Number of milch cows.....	4,820
Number of horses, all ages.....	5,797
Number of cattle, all ages, including milch cows.....	9,211
Number of sheep.....	6,783
Number of hogs.....	1,064
Personal property.....	\$559,184

NICOLLET COUNTY.

(Population, 1890, 13,382; County seat, St. Peter.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	69,745	Bushels..... 1,275,975	18 30	70,220
Oats.....	17,770	"..... 668,760	37 10	17,950
Corn.....	14,975	"..... 505,670	33 80	15,785
Barley.....	1,055	"..... 28,000	26 50	1,705
Rye.....	215	"..... 6,770	31 50	520
Buckwheat.....	5	"..... 40	8 00	15
Potatoes.....	875	"..... 87,410	.....	965
Beans.....	35	"..... 330	.....	50
Sugar cane.....	135	Syrup, gal'ns..... 10,180	.....	190
Cultivated hay.....	1,960	Tons..... 3,795	.....	2,165
Flax seed.....	4,130	Bushels..... 51,310	12 40	3,020
Other products.....	220	.....	.....	760
Total acres cultivated.....	111,127	.....	.....	113,775
Acres increase in 1892.....	2,255	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	50,800	Maple syrup, gallons, 1892.....	100
Timothy seed, bushels.....	230	Butter, pounds.....	687,190
Clover seed, bushels.....	190	Cheese, pounds.....	9,630
Apple trees, growing.....	8,265	Wool, pounds, fall '91.....	18,480
Apple trees, bearing.....	4,235	Wool, pounds, spring '92.....	20,395
Apples, bushels.....	3,415	Land surface, acres, 1892.....	278,782.41
Grape vines, bearing.....	1,000	Water surface, acres, 1892.....	18,469.37
Grapes, pounds.....	3,570	Number of cheese factories, '92.....	1
Bees, number of hives.....	575	Number of creameries, 1892.....	3
Honey, pounds.....	17,050	Number of farms, 1892.....	1,356

FARM STOCK, 1892.

Number of milch cows.....	8,136
Number of horses, all ages.....	7,760
Number of cattle, all ages, including milch cows.....	14,231
Number of sheep.....	3,145
Number of hogs.....	5,661
Personal property.....	\$1,036,803

NOBLES COUNTY.

(Population, 1890, 7,958 ; County seat, Worthington.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	41,066	Bushels..... 602,172	16.90	54,861
Oats.....	20,978	"..... 994,249	33.20	33,134
Corn.....	15,718	"..... 298,080	19.00	12,267
Barley.....	12,977	"..... 349,509	26.90	21,511
Rye.....	851	"..... 11,280	13.20	1,631
Buckwheat.....	169	"..... 1,357	12.40	141
Potatoes.....	574	"..... 60,494		666
Beans.....	28	"..... 506		24
Cultivated hay.....	5,014	Tons..... 4,514		9,257
Flax seed.....	18,265	Bushels..... 192,921	10.60	14,566
Other products.....	399			500
Total acres cultivated.....	124,977			151,018
Acres increase in 1892.....	26,041			

MISCELLANEOUS, 1891.

Wild hay, tons.....	35,832	Maple syrup, gallons, 1892.....	2
Timothy seed, bushels.....	5,003	Butter, pounds.....	332,360
Clover seed, bushels.....	252	Cheese, pounds.....	350
Apple trees, growing.....	7,165	Wool, pounds, fall '91.....	18,666
Apple trees, bearing.....	1,632	Wool, pounds, spring '92.....	25,622
Apples, bushels.....	508	Land surface, acres, 1892.....	454,877.12
Grape vines, bearing.....	191	Water surface, acres, 1892.....	10,827.04
Grapes, pounds.....	446	Number of creameries, 1892.....	3
Bees, number of hives.....	9	Number of farms, 1892.....	854
Honey, pounds.....	100		

FARM STOCK, 1892.

Number of milch cows.....	5,694
Number of horses, all ages.....	7,407
Number of cattle, all ages, including milch cows.....	11,659
Number of sheep.....	8,683
Number of hogs.....	3,782
Personal property.....	\$917,984

NORMAN COUNTY.

(Population, 1890, 10,618; County seat, Ada.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	94,808	Bushels..... 1,774,286	18.70	96,735
Oats.....	19,103	"..... 622,612	32.60	18,180
Corn.....	79	"..... 1,453	18.50	61
Barley.....	3,821	"..... 130,236	34.10	6,704
Rye.....	56	"..... 1,325	23.70	79
Potatoes.....	504	"..... 70,484	.....	460
Beans.....	3	"..... 2	.....	8
Cultivated hay.....	3,732	Tons..... 6,605	.....	3,377
Flax seed.....	295	Bushels..... 2,300	7.80	48
Other products.....	7	.....	.....	88
Total acres cultivated.....	122,403	.....	.....	125,735
Acres increase in 1892.....	3,332	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	28,248	Cheese, pounds.....	1,925
Timothy seed, bushels.....	902	Wool, pounds, fall '01.....	6,205
Apple trees, growing.....	329	Wool, pounds, spring '02.....	19,612
Apple trees, bearing.....	3	Land surface, acres, 1892.....	918,472.60
Bees, number of hives.....	2	Water surface, acres, 1892.....	14,833.55
Honey, pounds.....	20	Number of creameries, 1892.....	2
Butter, pounds.....	380,676	Number of farms, 1892.....	1,526

FARM STOCK, 1892.

Number of milch cows.....	6,808
Number of horses, all ages.....	6,475
Number of cattle, all ages, including milch cows.....	14,045
Number of sheep.....	5,714
Number of hogs.....	2,065
Personal property.....	\$811,597

OLMSTED COUNTY

(Population, 1890, 19,806; County seat, Rochester.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	15,604	Bushels..... 256,042	16.40	17,963
Oats.....	32,420	"..... 1,384,552	42.70	33,232
Corn.....	22,658	"..... 649,677	28.70	24,005
Barley.....	28,858	"..... 1,183,524	30.50	48,025
Rye.....	1,203	"..... 21,219	17.60	2,152
Buckwheat.....	258	"..... 3,727	14.40	306
Potatoes.....	1,074	"..... 141,960	.....	1,047
Beans.....	11	"..... 202	.....	14
Sugar cane.....	14	Syrup, gal's..... 939	.....	10
Cultivated hay.....	29,171	Tons..... 45,903	.....	27,190
Flax seed.....	15,756	Bushels..... 209,617	13.30	13,223
Other products.....	5,147	.....	.....	3,984
Total acres cultivated.....	162,174	.....	.....	171,263
Acres increase in 1892.....	9,080	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	7,601	Maple syrup, gallons, 1892.....	410
Timothy seed, bushels.....	40,415	Butter, pounds.....	1,266,239
Clover seed, bushels.....	529	Cheese, pounds.....	213,977
Apple trees, growing.....	18,260	Wool, pounds, fall '91.....	25,905
Apple trees, bearing.....	10,932	Wool, pounds, spring '92.....	39,074
Apples, bushels.....	8,408	Land surface, acres, 1892.....	421,391.08
Grape vines, bearing.....	3,170	Water surface, acres, 1892.....	2,520.20
Grapes, p-unds.....	4,517	Number of cheese factories, '92.....	3
Tobacco, pounds.....	9	Number of creameries, 1892.....	13
Bees, number of hives.....	807	Number of farms, 1892.....	1,822
Honey, pounds.....	12,325	.....	.....

FARM STOCK, 1892.

Number of milch cows.....	13,901
Number of horses, all ages.....	11,244
Number of cattle, all ages, including milch cows.....	26,121
Number of sheep.....	14,401
Number of hogs.....	10,393
Personal property.....	\$2,009,220

OTTER TAIL COUNTY.

(Population in 1890, 34,232; County seat, Fergus Falls.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield, per acre.	Acres, 1892.
Wheat.....	74,264	Bushels..... 1,505,426	20.80	79,664
Oats.....	17,228	"..... 531,414	30.80	17,207
Corn.....	3,064	"..... 74,204	24.20	1,879
Barley.....	1,460	"..... 46,139	31.60	1,855
Rye.....	262	"..... 5,571	21.30	105
Buckwheat.....	5	"..... 100	20.00	6
Potatoes.....	933	"..... 112,381		857
Beans.....	3	"..... 81		5
Cultivated hay.....	3,040	Tons..... 3,412		3,244
Flax seed.....	94	Bushels..... 1,131	12.00	106
Other products.....	128			132
Total acres cultivated.....	100,481			105,120
Acres increase in 1892.....	4,639			

MISCELLANEOUS, 1891.

Wild hay, tons.....	24,788	Butter, pounds.....	438,281
Timothy seed, bushels.....	174	Cheese, pounds.....	18,900
Apple trees, growing.....	936	Wool, pounds, fall '91.....	10,447
Apple trees, bearing.....	430	Wool, pounds, spring '92.....	17,937
Apples, bushels.....	111	Land surface, acres, 1892.....	1,270,977.77
Grapes vines, bearing.....	1	Water surface, acres, 1892.....	162,748.67
Tobacco, pounds.....	525	Number of cheese factories, '92.....	2
Bees, number of hives.....	86	Number of creameries, 1892.....	1
Honey, pounds.....	920	Number of farms, 1892.....	1,657
Maple syrup, gallons, 1892.....	35		

FARM STOCK, 1892.

Number of milch cows.....	15,185
Number of horses, all ages.....	14,467
Number of cattle, all ages, including milch cows.....	29,999
Number of sheep.....	11,00
Number of hogs.....	6,44
Personal property.....	\$1,667.28

PINE COUNTY.

(Population, 1890, 4,052; County seat, Pine City.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	405	Bushels..... 6,624	16.40	563
Oats.....	422	"..... 13,514	32.00	644
Corn.....	101	"..... 2,694	26.70	101
Barley.....	116	"..... 996	8.60	56
Rye.....	29	"..... 478	16.50	51
Buckwheat.....	9	"..... 236	26.20	17
Potatoes.....	263	"..... 22,768		221
Beans.....	5	"..... 68		5
Cultivated hay.....	1,623	Tons..... 2,300		1,563
Flax seed.....	1	Bushels..... 2	2.00	11
Other products.....	102			49
Total acres cultivated.....	3,076			3,271
Acres increase in 1892.....	195			

MISCELLANEOUS, 1891.

Wild hay, tons.....	852	Butter, pounds.....	54,022
Timothy seed, bushels.....	3	Cheese, pounds.....	715
Apple trees, growing.....	231	Wool, pounds, fall 1891.....	1,101
Apple trees, bearing.....	93	Wool, pounds, spring 1892.....	1,008
Apples, bushels.....	30	Land surface, acres, 1892.....	908,633.83
Grape vines, bearing.....	10	Water surface, acres, 1892.....	15,845.66
Grapes, pounds.....	13	Number of farms, 1892.....	224
Tobacco, pounds.....	33		

FARM STOCK, 1892.

Number of milch cows.....	1,169
Number of horses, all ages.....	695
Number of cattle, all ages, including milch cows.....	2,514
Number of sheep.....	355
Number of hogs.....	574
Personal property.....	\$293,689

PIPESTONE COUNTY.

(Population, 1890, 5,132; County seat, Pipestone.)

FARM STOCK, 1892.

Number of milch cows.....	2,675
Number of horses, all ages.....	4,160
Number of cattle, all ages, including milch cows.....	4,708
Number of sheep.....	2,604
Number of hogs.....	1,267
Personal property.....	\$522,816

POLK COUNTY.

(Population, 1890, 30,192; County seat, Crookston.)

FARM STOCK, 1892.

Number of milch cows.....	13,905
Number of horses, all ages.....	14,960
Number of cattle, all ages, including milch cows.....	29,311
Number of sheep.....	9,058
Number of hogs.....	5,138
Personal property.....	\$2,184,005

POPE COUNTY.

(Population, 1890, 10,032; County seat, Glenwood.)

FARM STOCK, 1892.

Number of milch cows.....	7,455
Number of horses, all ages.....	7,514
Number of cattle, all ages, including milch cows.....	17,661
Number of sheep.....	3,605
Number of hogs.....	2,036
Personal property.....	\$729,866

RAMSEY COUNTY.

(Population, 1890, 139,796; County seat, St. Paul.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892
Wheat.....	576	Bushels..... 12,968	22.50	1,374
Oats.....	3,304	"..... 131,847	39.90	3,519
Corn.....	941	"..... 43,135	45.80	1,069
Barley.....	127	"..... 4,788	37.70	312
Rye.....	116	"..... 2,249	19.40	118
Buckwheat.....	38	"..... 1,061	27.90	14
Potatoes.....	930	"..... 117,735		1,070
Beans.....	13	"..... 193		20
Sugar cane.....	1	Syrup, gallons..... 325		1
Cultivated hay.....	3,916	Tons..... 4,869		3,755
Other products.....	2,581			2,273
Total acres cultivated.....	12,543			13,525
Acres increase in 1892.....	982			

MISCELLANEOUS, 1891.

Wild hay, tons.....	2,620	Honey, pounds.....	80
Clover seed, bushels.....	63	Butter, pounds.....	42,543
Apple trees, growing.....	1,002	Cheese, pounds.....	500
Apple trees, bearing.....	247	Wool, pounds, fall 1891.....	1,148
Apples, bushels.....	217	Wool, pounds, spring 1892.....	1,729
Grape vines, bearing.....	1,448	Land surface, acres, 1892.....	111,166.71
Grapes, pounds.....	3,800	Water surface, acres, 1892.....	8,605.34
Tobacco, pounds.....	65	Number of farms, 1892.....	221
Bees, number of hives.....	6		

FARM STOCK, 1892.

Number of milch cows.....	7,860
Number of horses, all ages.....	6,915
Number of cattle, all ages, including milch cows.....	4,811
Number of sheep.....	1,061
Number of hogs.....	828
Personal property.....	\$17,376.442

REDWOOD COUNTY.

(Population, 1890, 9,386; County seat, Redwood Falls.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	64,564	Bushels.....1,150,186	17.80	82,301
Oats.....	20,885	".....600,236	28.70	22,773
Corn.....	10,170	".....214,219	21.10	10,258
Barley.....	1,126	".....32,297	28.70	2,742
Rye.....	13	".....223	17.20	59
Buckwheat.....	2	".....50	25.00	4
Potatoes.....	468	".....36,968		484
Beans.....	2	".....31		7
Sugar cane.....	1	Syrup, gal'ns.....130		2
Cultivated hay.....	663	Tons.....1,075		773
Flax seed.....	13,073	Bushels.....126,794	9.70	5,118
Other products.....	200			839
Total acres cultivated.....	111,173			125,380
Acres increase in 1892.....	14,187			

MISCELLANEOUS, 1891.

Wild hay, tons.....	34,004	Butter, pounds.....	201,480
Timothy seed, bushels.....	136	Cheese, pounds.....	3,035
Clover seed, bushels.....	30	Wool, pounds, fall '91.....	12,308
Apple trees, growing.....	3,582	Wool, pounds, spring '92.....	25,189
Apple trees, bearing.....	772	Land surface, acres, 1892.....	557,122.74
Apples, bushels.....	181	Water surface, acres, 1892.....	14,930.13
Grape vines, bearing.....	212	Number of cheese factories, '92.....	2
Grapes, pounds.....	203	Number of creameries, 1892.....	1
Bees, number of hives.....	37	Number of farms, 1892.....	925
Honey, pounds.....	255		

FARM STOCK, 1892.

Number of milch cows.....	8,091
Number of horses, all ages.....	8,535
Number of cattle, all ages, including milch cows.....	16,643
Number of sheep.....	8,960
Number of hogs.....	2,680
Personal property.....	\$943,502

RENVILLE COUNTY.

(Population, 1890, 17,099 ; County seat, Beaver Falls.)

AGRICULTURE.

Product.	Acres. 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	106,474	Bushels..... 1,773,664	16.70	110,120
Oats.....	20,138	"..... 762,895	37.90	21,604
Corn.....	10,893	"..... 260,465	23.90	12,031
Barley.....	1,628	"..... 37,332	29.10	2,330
Rye.....	50	"..... 723	14.50	78
Buckwheat.....	21	"..... 151	7.20	14
Potatoes.....	692	"..... 44,299	.....	737
Beans.....	13	"..... 68	.....	11
Sugar cane.....	9	Syrup, gallons..... 468	.....	7
Cultivated hay.....	1,203	Tons..... 1,953	.....	1,558
Flax seed.....	11,429	Bushels..... 121,718	10.70	3,671
Other products.....	10	.....	.....	25
Total acres cultivated.....	162,560	.....	.....	162,306

MISCELLANEOUS, 1891.

Wild hay, tons.....	50,299	Bees, number of hives.....	51
Timothy seed, bushels.....	239	Honey, pounds.....	146
Clover seed, bushels.....	110	Butter, pounds.....	413,855
Apple trees, growing.....	2,481	Cheese, pounds.....	325
Apple trees, bearing.....	430	Wool, pounds, fall 1891.....	15,578
Apples, bushels.....	147	Wool, pounds, spring 1892.....	16,996
Grape vines, bearing.....	131	Land surface, acres, 1892.....	621,650.89
Grapes, pounds.....	225	Water surface, acres, 1892.....	6,386.69
Tobacco, pounds.....	23	Number of farms, 1892.....	819

FARM STOCK, 1892.

Number of milch cows.....	11,366
Number of horses, all ages.....	12,365
Number of cattle, all ages, including milch cows.....	21,522
Number of sheep.....	6,025
Number of hogs.....	4,325
Personal property.....	\$1,158,052

RICE COUNTY.

(Population, 1890, 23,968 ; County seat, Faribault.)

AGRICULTURE.

Product.	Acres. 1891.	Yield, 1891.	Yield, per acre.	Acres, 1892.
Wheat.....	45,814	Bushels..... 864,779	18.90	49,820
Oats.....	26,067	"..... 965,774	37.10	26,378
Corn.....	16,290	"..... 506,175	31.10	17,004
Barley.....	1,187	"..... 41,475	34.90	1,829
Rye.....	2,420	"..... 42,836	17.70	3,648
Buckwheat.....	207	"..... 9,821	47.40	198
Potatoes.....	870	"..... 74,752	.....	1,160
Beans.....	13	"..... 350	.....	22
Sugar cane.....	61	Syrup, gallons..... 4,774	.....	32
Cultivated hay.....	9,793	Tons..... 12,460	.....	9,560
Flax seed.....	4,490	Bushels..... 59,614	13.30	3,660
Other products.....	468	.....	.....	417
Total acres cultivated.....	107,670	.....	.....	113,728
Acres increase in 1892.....	6,058	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	20,589	Maple syrup, gallons, 1892.....	500
Timothy seed, bushels.....	1,024	Butter, pounds.....	538,301
Clover seed, bushels.....	1,537	Cheese, pounds.....	5,460
Apple trees, growing.....	4,530	Wool, pounds, fall, 1891.....	17,280
Apple trees, bearing.....	2,646	Wool, pounds, spring 1892.....	26,353
Apples, bushels.....	2,612	Land surface, acres, 1892.....	311,505.87
Grape vines, bearing.....	765	Water surface, acres, 1892.....	11,054.83
Grapes, pounds.....	3,220	Number of cheese factories, '92.....	1
Bees, number of hives.....	1,251	Number of creameries, 1892.....	11
Honey, pounds.....	16,810	Number of farms, 1892.....	1,856

FARM STOCK, 1892.

Number of milch cows.....	11,836
Number of horses, all ages.....	7,993
Number of cattle, all ages, including milch cows.....	19,354
Number of sheep.....	5,589
Number of hogs.....	5,541
Personal property.....	\$1,849,287

ROCK COUNTY.

(Population 1890, 6,817; County seat, Luverne.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	33,477	Bushels..... 644,285	19.20	44,191
Oats.....	25,472	"..... 999,067	39.20	27,199
Corn.....	19,301	"..... 488,755	25.30	16,016
Barley.....	15,509	"..... 506,114	32.40	21,508
Rye.....	413	"..... 4,769	11.50	375
Buckwheat.....	24	"..... 190	8.00	8
Potatoes.....	534	"..... 49,872	.....	456
Beans.....	12	"..... 228	.....	15
Cultivated hay.....	3,069	Tons..... 5,876	.....	5,765
Flax seed.....	10,026	Bushels..... 116,593	10.00	4,678
Other products.....	91	.....	.....	480
Total acres cultivated.....	108,908	.....	.....	123,693
Acres increase in 1892.....	14,785	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	17,395	Honey, pounds.....	1,710
Timothy seed, bushels.....	5,819	Maple syrup, gallons, 1892.....	6
Clover seed, bushels.....	408	Butter, pounds.....	347,833
Apple trees, growing.....	8,197	Cheese, pounds.....	225
Apple trees, bearing.....	1,031	Wool, pounds, fall 1891.....	6,348
Apples, bushels.....	656	Wool, pounds, spring 1892.....	18,273
Grape vines, bearing.....	339	Land surface, acres, 1892.....	307,736.11
Grapes, pounds.....	1,970	Water surface, acres, 1892.....	1,174.04
Tobacco, pounds.....	25	Number of creameries, 1892.....	1
Bees, number of hives.....	74	Number of farms, 1892.....	975

FARM STOCK, 1892.

Number of milch cows.....	4,869
Number of horses, all ages.....	5,876
Number of cattle, all ages, including milch cows.....	9,349
Number of sheep.....	3,379
Number of hogs.....	5,363
Personal property.....	\$699,887

ST. LOUIS COUNTY.

(Population 1890, 44,862; County seat, Duluth.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	3	Bushels..... 24	8.00	4
Oats.....	231	"..... 1,929	8.40	316
Barley.....	40	"..... 606	15.00	57
Rye.....	30	"..... 318	10.60	44
Potatoes.....	297	"..... 32,954	.....	342
Cultivated hay.....	2,119	Tons..... 1,767	.....	2,386
Other products.....	91	.....	.....	84
Total acres cultivated.....	2,811	.....	.....	3,233
Acres increase in 1892.....	422	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	405	Cheese, pounds.....	37
Apple trees, growing.....	81	Wool, pounds, fall 1891.....	182
Apple trees, bearing.....	6	Wool, pounds, spring 1892.....	221
Tobacco, pounds.....	60	Land surface, acres, 1892.....	3,735,846.26
Bees, number of hives.....	93	Water surface, acres, 1892.....	495,674.66
Honey, pounds.....	6,550	Number of farms, 1892.....	238
Butter, pounds.....	19,719		

FARM STOCK, 1892.

Number of milch cows.....	1,872
Number of horses, all ages.....	2,710
Number of cattle, all ages, including milch cows.....	2,197
Number of sheep.....	1,100
Number of hogs.....	401
Personal property.....	\$6,060,222

SCOTT COUNTY.

(Population, 1890, 13,831 ; County seat, Shakopee.)

AGRICULTURE.

Product.	Acres. 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	19,135	Bushels..... 443,634	23.20	23,450
Oats.....	5,763	"..... 223,870	38.90	7,064
Corn.....	6,644	"..... 219,465	33.00	7,870
Barley.....	323	"..... 8,121	25.10	309
Rye.....	1,101	"..... 20,847	18.90	2,274
Buckwheat.....	15	"..... 134	8.90	7
Potatoes.....	594	"..... 58,060		676
Beans.....	1	"..... 10		6
Sugarcane.....	40	Syrup, gal's..... 2,428		32
Cultivated hay.....	1,029	Tons..... 1,095		897
Flax seed.....	139	Bushels..... 1,364	9.80	63
Other products.....	125			113
Total acres cultivated.....	34,909			42,781
Acres increase in 1892.....	7,872			

MISCELLANEOUS, 1891.

Wild hay, tons.....	8,007	Honey, pounds.....	1,850
Timothy seed, bushels.....	3	Butter, pounds.....	210,295
Clover seed, bushels.....	759	Cheese, pounds.....	20,000
Apple trees, growing.....	1,235	Wool, pounds, fall '91.....	184
Apple trees, bearing.....	773	Wool, pounds, spring '92.....	3,288
Apples, bushels.....	1,440	Land surface, acres, 1892.....	219,344.22
Grape vines, bearing.....	2,642	Water surface, acres, 1892.....	10,157.58
Grapes, pounds.....	3,639	No. of cheese factories, 1892.....	2
Bees, number of hives.....	151	Number of farms, 1892.....	384

FARM STOCK, 1892.

Number of milch cows.....	7,285
Number of horses, all ages.....	5,222
Number of cattle, all ages, including milch cows.....	12,049
Number of sheep.....	3,477
Number of hogs.....	5,624
Personal property.....	\$870,623

SHERBURNE COUNTY.

(Population, 1890, 5,908; County seat, Elk River.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	6,359	Bushels 75,146	11.80	7,625
Oats.....	5,393	" 97,193	18.00	6,016
Corn.....	8,397	" 118,882	14.20	8,514
Barley.....	68	" 1,731	29.90	99
Rye.....	4,813	" 51,345	11.90	6,198
Buckwheat.....	58	" 486	8.40	61
Potatoes.....	764	" 68,561		724
Beans.....	81	" 549		74
Sugar cane.....	14	Syrup, gal's.. 367		14
Cultivated hay.....	1,300	Tons 970		933
Flax seed.....	35	Bushels 276	7.60	10
Other products.....	67			72
Total acres cultivated.....	26,809			30,340
Acres increase in 1892.....	3,531			

MISCELLANEOUS, 1891.

Wild hay, tons.....	10,659	Butter, pounds.....	178,995
Timothy seed, bushels.....	51	Cheese, pounds.....	600
Apple trees, growing.....	384	Wool, pounds, fall '91.....	1,245
Apple trees, bearing.....	203	Wool, pounds, spring '92.....	1,257
Apples, bushels.....	121	Land surface, acres, 1892.....	287,180.40
Grape vines, bearing.....	49	Water surface, acres, 1892.....	12,905.72
Grapes, pounds.....	5	No. of cheese factories, 1892.....	1
Bees, number of hives.....	208	Number of creameries, 1892.....	1
Honey, pounds.....	5,815	Number of farms, 1892.....	414
Maple syrup, gallons, 1892.....	30		

FARM STOCK, 1892.

Number of milch cows.....	832
Number of horses, all ages.....	2,893
Number of cattle, all ages, including milch cows.....	3,618
Number of sheep.....	857
Number of hogs.....	1,786
Personal property.....	\$331,719

SIBLEY COUNTY.

(Population, 1890, 15,199; County seat, Henderson.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	84,003	Bushels 1,590,818	18.90	87,251
Oats.....	17,284	" 765,132	44.30	18,898
Corn.....	13,403	" 473,065	35.30	14,177
Barley.....	1,866	" 57,699	30.90	2,404
Rye.....	1,034	" 10,575	10.20	1,055
Buckwheat.....	86	" 570	15.80	16
Potatoes.....	1,006	" 82,299		1,030
Beans.....	20	" 352		14
Sugar cane.....	72	Syrup, galls 6,182		60
Cultivated hay.....	421	Tons 747		539
Flax seed.....	3,074	Bushels 38,785	12.60	886
Other products.....	174			185
Total acres cultivated.....	122,373			126,514
Acres increase in 1892.....	4,141			

MISCELLANEOUS, 1891.

Wild hay, tons.....	45,753	Maple syrup, gallons, 1892.....	100
Timothy seed, bushels.....	102	Butter, pounds.....	308,725
Clover seed, bushels.....	25	Cheese, pounds.....	20,690
Apple trees, growing.....	5,509	Wool, pounds, fall 1891.....	8,641
Apple trees, bearing.....	1,836	Wool, pounds, spring 1892.....	18,731
Apples, bushels.....	1,469	Land surface, acres, 1892.....	362,808.14
Grape vines, bearing.....	448	Water surface, acres, 1892.....	19,737.61
Grapes, pounds.....	792	Number of cheese factories, 1892.....	2
Tobacco, pounds.....	463	Number of creameries, 1892.....	6
Bees, number of hives.....	555	Number of farms, 1892.....	1,901
Honey, pounds.....	7,178		

FARM STOCK, 1892.

Number of milch cows.....	11,159
Number of horses, all ages.....	8,905
Number of cattle, all ages, including milch cows.....	17,818
Number of sheep.....	4,675
Number of hogs.....	3,618
Personal property.....	\$937,979

STEARNS COUNTY.

(Population, 1890, 34,844; County seat, St. Cloud.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	117,269	Bushels 1,948,391	16.60	122,636
Oats.....	27,246	"..... 821,148	30.10	28,196
Corn.....	11,926	"..... 263,245	22.10	11,306
Barley.....	2,023	"..... 62,415	30.70	3,029
Rye.....	1,007	"..... 17,476	17.40	1,214
Buckwheat.....	91	"..... 1,046	11.50	55
Potatoes.....	2,257	"..... 173,578		2,251
Beans.....	15	"..... 122		15
Sugar cane.....	22	Syrup, galls..... 1,731		20
Cultivated hay.....	3,114	Tons..... 3,236		2,665
Flax seed.....	1,511	Bushels 13,131	8.70	696
Other products.....	329			289
Total acres cultivated.....	166,815			172,662
Acres increase in 1892.....	5,847			

MISCELLANEOUS, 891.

Wild hay, tons.....	51,528	Honey, pounds.....	11,810
Timothy seed, bushels.....	102	Butter, pounds.....	535,463
Clover seed, bushels.....	12	Cheese, pounds.....	58,710
Apple trees, growing.....	1,913	Wool, pounds, fall 1891.....	5,876
Apple trees, bearing.....	947	Wool, pounds, spring 1892.....	19,396
Apples, bushels.....	779	Land surface, acres, 1892.....	814,220.09
Grape vines, bearing.....	25	Water surface, acres, 1892.....	37,021.27
Grapes, pounds.....	327	Number of cheese factories, 1892.....	2
Tobacco, pounds.....	198	Number of creameries, 1892.....	4
Bees, number of hives.....	395	Number of farms, 1892.....	2,148

FARM STOCK, 1892.

Number of milch cows.....	14,611
Number of horses, all ages.....	12,909
Number of cattle, all ages, including milch cows.....	28,423
Number of sheep.....	5,829
Number of hogs.....	8,291
Personal property.....	\$2,191,588

STEELE COUNTY.

(Population, 1890, 13,232; County seat, Owatonna.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	31,617	Bushels..... 539,609	17.10	35,640
Oats.....	20,239	" 722,204	35.70	20,247
Corn.....	16,864	" 452,513	26.80	12,217
Barley...	3,379	" 84,494	25.00	4,059
Rye.....	2,233	" 45,938	20.60	3,635
Buckwheat.....	81	" 1,139	14.00	31
Potatoes.....	967	" 102,553	.....	942
Beans.....	10	" 146	.....	28
Sugar cane.....	3	Syrup, galls.. 449	.....	1
Cultivated hay.....	7,157	Tons..... 12,229	.....	7,397
Flax seed.....	3,328	Bushels..... 35,123	10.60	2,279
Other products.....	106	.....	.....	509
Total acres cultivated.....	85,984	.....	.....	87,955
Acres increase in 1892.....	1,971	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	32,579	Maple syrup, gallons, 1892.....	10
Timothy seed, bushels.....	2,001	Butter, pounds.....	638,964
Clover seed, bushels.....	288	Cheese, pounds.....	376,607
Apple trees, growing.....	7,973	Wool, pounds, fall 1891.....	15,438
Apple trees, bearing.....	3,541	Wool, pounds, spring 1892.....	18,790
Apples, bushels.....	1,189	Land surface, acres, 1892.....	272,761.47
Grape vines, bearing.....	231	Water surface, acres, 1892.....	2,817.69
Grapes, pounds.....	665	No. of cheese factories, 1892.....	4
Tobacco, pounds.....	50	Number of creameries, 1892.....	9
Bees, number of hives.....	264	Number of farms, 1892.....	930
Honey, pounds.....	5,826		

FARM STOCK, 1892.

Number of milch cows.....	11,342
Number of horses, all ages.....	6,518
Number of cattle, all ages, including milch cows.....	20,289
Number of sheep.....	6,219
Number of hogs.....	5,488
Personal property.....	\$1,233,923

STEVENS COUNTY.

(Population, 1890, 5,251; County seat, Morris.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	44,040	Bushels..... 803,220	18.20	50,550
Oats.....	17,045	" 584,700	30.40	20,850
Corn.....	1,225	" 28,540	23.30	405
Barley.....	1,555	" 35,470	22.80	1,650
Rye.....	10	" 220	22.00	20
Buckwheat.....	75	" 1,450	19.30	50
Potatoes.....	470	" 45,170	.....	645
Beans.....	48	" 702	.....	100
Cultivated hay.....	1,410	Tons..... 1,467	.....	1,145
Flax seed.....	7,280	Bushels..... 84,120	11.60	3,850
Other products.....	155	210
Total acres cultivated.....	73,313	79,475
Acres increase in 1892.....	6,162

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MISCELLANEOUS, 1891.

Wild hay, tons.....	26,510	Honey, pounds.....	1,550
Timothy seed, bushels.....	50	Butter, pounds.....	205,800
Clover seed, bushels.....	30	Cheese, pounds.....	44,000
Apple trees, growing.....	950	Wool, pounds, fall 1891.....	250
Apple trees, bearing.....	455	Wool, pounds, spring 1892.....	12,830
Apples, bushels.....	165	Land surface, acres, 1892.....	355,596.19
Grape vines, bearing.....	13	Water surface, acres, 1892.....	10,411.31
Tobacco, pounds.....	50	No. of cheese factories, 1892.....	1
Bees, number of hives.....	66	Number of farms, 1892.....	733

FARM STOCK, 1892.

Number of milch cows.....	3,046
Number of horses, all ages.....	4,154
Number of cattle, all ages, including milch cows.....	6,523
Number of sheep.....	2,560
Number of hogs.....	945
Personal property.....	\$496,041

SWIFT COUNTY.

(Population, 1890, 10,161; County seat, Benson).

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	63,184	Bushels ... 1,078,744	17.10	74,083
Oats.....	18,299	" ... 476,991	26.10	20,501
Corn.....	2,438	" ... 55,101	22.60	2,271
Barley.....	1,366	" ... 30,454	22.30	2,364
Rye.....	41	" ... 785	19.10	39
Buckwheat.....	4	" ... 105	26.20	.....
Potatoes.....	456	" ... 35,148	.....	427
Beans.....	1	" ... 3	.....	10
Sugar cane.....	.....	Syrup, gallons.....	.....	1
Cultivated hay.....	808	Tons..... 1,139	.....	1,042
Flax seed.....	7,838	Bushels..... 71,637	9.10	2,464
Other products.....	5	.....	.....	44
Total acres cultivated.....	94,440	.....	.....	103,196
Acres increase in 1892.....	8,756	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	36,330	Cheese, pounds.....	1,430
Apple trees, growing.....	577	Wool, pounds, fall 1891.....	6,727
Apple trees, bearing.....	145	Wool, pounds, spring 1892.....	9,333
Apples, bushels.....	92	Land surface, acres, 1892.....	475,553.36
Grape vines, bearing.....	38	Water surface, acres, 1892.....	9,392.08
Butter, pounds.....	230,465	Number of farms, 1892.....	1,104

FARM STOCK, 1892.

Number of milch cows.....	6,236
Number of horses, all ages.....	7,028
Number of cattle, all ages, including milch cows.....	13,863
Number of sheep.....	2,997
Number of hogs.....	2,120
Personal property.....	\$751,647

TODD COUNTY.

(Population, 1890, 12,930; County seat, Long Prairie).

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	23,952	Bushels ... 448,938	18.70	29,282
Oats.....	5,232	" ... 160,585	30.70	6,514
Corn.....	1,887	" ... 48,905	25.90	1,565
Barley.....	313	" ... 9,224	29.80	498
Rye.....	206	" ... 5,500	18.50	302
Buckwheat.....	32	" ... 744	23.30	12
Potatoes.....	576	" ... 62,157	.....	562
Beans.....	29	" ... 284	.....	40
Cultivated hay.....	866	Tons..... 1,133	.....	716
Flax seed.....	198	Bushels..... 1,900	9.60	4
Other products.....	244	.....	.....	151
Total acres cultivated.....	33,627	.....	.....	39,646
Acres increase in 1892.....	6,019	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	17,067	Maple syrup, gallons, 1892.....	87
Timothy seed, bushels.....	96	Butter, pounds.....	224,730
Apple trees, growing.....	1,161	Cheese, pound.....	4,182
Apple trees, bearing.....	240	Wool, pounds, fall 1891.....	5,874
Apples, bushels.....	130	Wool, pounds, spring 1892.....	11,822
Grape vines, bearing.....	12	Land surface, acres, 1892.....	618,225.14
Tobacco, pounds.....	270	Water surface, acres, 1892.....	27,111.56
Bees, number of hives.....	42	Number of farms, 1892.....	634
Honey, pounds.....	500		

FARM STOCK, 1892.

Number of milch cows.....	5,733
Number of horses, all ages.....	4,588
Number of cattle, all ages, including milch cows.....	11,482
Number of sheep.....	4,541
Number of hogs.....	2,578
Personal property.....	\$635,092

TRAVERSE COUNTY.

(Population, 1890, 4,516; County seat, Wheaton.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre	Acres, 1892.
Wheat.....	55,147	Bushels 728,051	13.20	61,289
Oats.....	9,109	" 243,850	26.80	11,218
Corn.....	1,210	" 20,174	16.70	889
Barley.....	1,723	" 46,643	27.10	2,524
Rye.....				15
Buckwheat.....	4	Bushels 70	17.50	...
Potatoes.....	240	" 17,499		322
Beans	2	" 53		1
Cultivated hay	825	Tons 1,141		1,187
Flax seed.....	446	Bushels 2,186	4.90	37
Other products	105			133
Total acres cultivated	68,811			77,645
Acres increase in 1892	8,804			...

MISCELLANEOUS, 1891.

Wild hay, tons.....	9,341	Wool, pounds, fall 1891.....	447
Apple trees, growing.....	963	Wool, pounds, spring 1892.....	690
Apple trees, bearing.....	84	Land surface, acres, 1892.....	363,463.46
Apples, bushels.....	33	Water surface, acres, 1892.....	8,906.00
Butter, pounds.....	92,390	Number of creameries, 1892.....	1
Cheese, pounds.....	645	Number of farms, 1892.....	410

FARM STOCK, 1892.

Number of milch cows.....	2,035
Number of horses, all ages.....	3,882
Number of cattle, all ages, including milch cows.....	4,006
Number of sheep.....	343
Number of hogs.....	771
Personal property.....	\$353,130

WABASHA COUNTY.

(Population, 1890, 16,972 ; County seat, Wabasha.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	7,701	Bushels 107,336	13.90	7,304
Oats.....	9,140	" 242,815	26.60	9,772
Corn.....	6,730	" 193,275	28.70	6,596
Barley.....	12,973	" 332,881	25.70	15,346
Rye.....	592	" 9,519	16.10	472
Buckwheat.....	127	" 892	7.00	47
Potatoes.....	557	" 37,835		711
Beans.....	1	" 37		250
Sugar cane.....	1	Syrup, gallons..... 50		5
Cultivated hay.....	4,637	Tons 7,120		4,216
Flax seed.....	601	Bushels 7,707	12.80	505
Other products.....	878			834
Total acres cultivated.....	43,938			46,067
Acres increase in 1892.....	2,119			

MISCELLANEOUS, 1891.

Wild hay, tons.....	512	Honey, pounds.....	5,240
Timothy seed, bushels.....	1,374	Butter, pounds.....	175,230
Clover seed, bushels.....	155	Cheese, pounds.....	1,065
Apple trees, growing.....	5,216	Wool, pounds, fall 1891.....	4,173
Apple trees, bearing.....	2,324	Wool, pounds, spring 1892.....	2,724
Apples, bushels.....	2,387	Land surface, acres, 1892.....	355,544.17
Grape vines, bearing.....	98	Water surface, acres, 1892.....	25,018.07
Grapes, pounds.....	531	Number of creameries, 1892.....	3
Bees, number of hives.....	256	Number of farms, 1892.....	359

FARM STOCK, 1892.

Number of milch cows.....	7,538
Number of horses, all ages.....	6,967
Number of cattle, all ages, including milch cows.....	14,410
Number of sheep.....	5,967
Number of hogs.....	8,185
Personal property.....	\$1,167,891

WADENA COUNTY.

(Population, 1890, 4,053 ; County seat, Wadena.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	13,582	Bushels 241,609	17.80	15,813
Oats.....	3,576	" 89,091	24.90	3,772
Corn.....	1,398	" 35,022	25.10	1,046
Barley.....	130	" 2,640	22.00	166
Rye.....	679	" 11,811	17.40	547
Buckwheat.....	17	" 266	15.60	36
Potatoes.....	331	" 39,639		312
Beans.....	4	" 68		6
Cultivated hay.....	109	Tons 168		124
Flax seed.....	8	Bushels 120	15.00	
Other products.....	91			118
Total acres cultivated.....	19,915			21,940
Acres increase in 1892.....	2,025			

MISCELLANEOUS, 1891.

Wild hay, tons.....	4,195	Butter, pounds.....	89,957
Timothy seed, bushels.....	100	Wool, pounds, fall 1891.....	4,147
Apple trees, growing.....	324	Wool, pounds, spring 1892.....	3,205
Apple trees, bearing.....	3	Land surface, acres, 1892.....	452,751.16
Grape vines, bearing.....	5	Water surface, acres, 1892.....	6,828.84
Bees, number of hives.....	2	Number of cheese factories, '92.....	1
Honey, pounds.....	40	Number of farms, 1892.....	455

FARM STOCK, 1892.

Number of milch cows.....	1,540
Number of horses, all ages.....	1,708
Number of cattle, all ages, including milch cows.....	2,997
Number of sheep.....	1,503
Number of hogs.....	683
Personal property.....	\$347,460

WASECA COUNTY.

(Population, 1890, 13,313; County seat, Waseca.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield, per acre.	Acres, 1892.
Wheat.....	28,855	Bushels 467,020	16.20	31,021
Oats.....	10,250	" 382,554	37.20	10,994
Corn.....	9,315	" 329,660	36.50	9,619
Barley.....	429	" 12,069	28.10	378
Rye.....	55	" 1,288	23.30	112
Buckwheat.....	30	" 282	9.40	5
Potatoes.....	638	" 56,617		695
Beans.....	5	" 65		6
Sugar cane.....	13	Syrup, gal's. 1,030		15
Cultivated hay.....	1,729	Tons..... 2,607		2,036
Flax seed.....	1,671	Bushels 16,449	9.80	601
Other products.....	8,368			6,379
Total acres cultivated.....	61,348			61,869
Acres increase in 1892.....	511			

MISCELLANEOUS, 1891.

Wild hay, tons.....	15,920	Honey, pounds.....	1,340
Timothy seed, bushels.....	173	Butter, potnds.....	277,000
Clover seed, bushels.....	484	Cheese, pounds.....	309
Apple trees, growing.....	2,898	Wool, pounds, fall '91.....	6,419
Apple trees, bearing.....	1,223	Wool, pounds, spring '92.....	8,875
Apples, bushels.....	424	Land surface, acres, 1892.....	268,161.75
Grape vines, bearing.....	175	Water surface, acres, 1892.....	11,524.16
Grapes, pounds.....	71	Number of creameries, 1892.....	2
Bees, number of hives.....	163	Number of farms, 1892.....	753

FARM STOCK, 1892.

Number of milch cows.....	8,469
Number of horses, all ages.....	6,770
Number of cattle, all ages, including milch cows.....	15,207
Number of sheep.....	4,022
Number of hogs.....	4,777
Personal property.....	\$800,075

WASHINGTON COUNTY.

(Population, 1890, 25,992; County seat, Stillwater.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield, per acre.	Acres, 1892.
Wheat.....	15,120	Bushels 249,789	16.50	19,948
Oats.....	19,895	" 711,448	35.80	19,364
Corn.....	9,014	" 259,592	28.80	8,284
Barley.....	5,255	" 182,924	31.00	7,114
Rye.....	3,270	" 64,610	19.80	4,601
Buckwheat.....	232	" 1,560	6.80	142
Potatoes.....	1,082	" 249,654		1,734
Beans.....	126	" 1,243		90
Cultivated hay.....	17,236	Tons..... 20,340		16,036
Flax seed.....	966	Bushels 10,403	10.80	548
Other products.....	2,098			2,098
Total acres cultivated.....	75,194			80,053
Acres increase in 1892.....	4,850			

MISCELLANEOUS.

Wild hay, tons.....	2,297	Bees, number of hives.....	831
Timothy seed, bushels.....	292	Honey, pounds.....	6,980
Clover seed, bushels.....	308	Butter, pounds.....	577,855
Apple trees, growing.....	4,259	Cheese, pounds.....	1,625
Apple trees, bearing.....	2,186	Wool, pounds, fall '91.....	8,822
Apples, bushels.....	2,045	Wool, pounds, spring '92.....	13,645
Grape vines, bearing.....	1,744	Land surface, acres, 1892.....	261,675.04
Grapes, pounds.....	4,016	Water surface, acres, 1892.....	13,530.31
Tobacco, pounds.....	20	Number of farms, 1892.....	1,029

FARM STOCK, 1892.

Number of milch cows.....	6,279
Number of horses, all ages.....	5,070
Number of cattle, all ages, including milch cows.....	9,898
Number of sheep.....	2,934
Number of hogs.....	3,698
Personal property.....	\$2,598,318

WATONWAN COUNTY.

(Population, 1890, 7,746; County seat, St. James.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	34,752	Bushels..... 573,711	16.50	44,901
Oats.....	20,811	"..... 651,408	31.30	21,650
Corn.....	13,898	"..... 313,633	22.70	11,896
Barley.....	1,681	"..... 35,443	21.10	2,258
Rye.....	48	"..... 627	12.90	112
Buckwheat.....	43	"..... 365	8.50	27
Potatoes.....	309	"..... 23,600		352
Beans.....	10	"..... 88		4
Sugar cane.....	31	Syrup, gall's.. 3,425		32
Cultivated hay.....	822	Tons..... 1,763		2,062
Flax seed.....	13,128	Bushels..... 150,537	11.50	5,323
Other products.....	129			109
Total acres cultivated.....	85,572			88,726
Acres increase in 1892.....	3,154			

MISCELLANEOUS, 1891.

Wild hay, tons.....	28,566	Honey, pounds.....	543
Timothy seed, bushels.....	2,406	Butter, pounds.....	386,009
Clover seed, bushels.....	90	Cheese, pounds.....	375
Apple trees, growing.....	3,361	Wool, pounds, fall '91.....	5,364
Apple trees, bearing.....	662	Wool, pounds, spring '92.....	10,248
Apples, bushels.....	402	Land surface, acres, 1892.....	277,051.92
Grape vines, bearing.....	121	Water surface, acres, 1892.....	1,638.00
Grapes, pounds.....	630	Number of creameries, 1892.....	1
Tobacco, pounds.....	23	Number of farms, 1892.....	945
Bees, number of hives.....	57		

FARM STOCK, 1892.

Number of milch cows.....	7,368
Number of horses, all ages.....	5,810
Number of cattle, all ages, including milch cows.....	12,063
Number of sheep.....	5,010
Number of hogs.....	4,302
Personal property.....	\$698,233

WILKIN COUNTY.

(Population 1890, 4,346; County seat, Breckenridge.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	29,078	Bushels..... 534,631	18.40	37,483
Oats.....	6,135	"..... 215,923	35.20	6,783
Corn.....	72	"..... 870	12.10	90
Barley.....	1,709	"..... 50,601	29.60	2,101
Rye.....	56	"..... 990	17.70	95
Potatoes.....	120	"..... 15,153	.....	148
Beans.....	6	"..... 82	.....	3
Cultivated hay.....	247	Tons..... 508	.....	441
Flax seed.....	690	Bushels..... 6,203	9.16	118
Other products.....	5	.....	.....	30
Total acres cultivated.....	38,118	.....	.....	47,202
Acres increase in 1892.....	9,174	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	6,528	Wool, pounds, fall 1891.....	534
Timothy seed, bushels.....	14	Wool, pounds, spring 1892.....	1,728
Apple trees, growing.....	74	Land surface, acres, 1892.....	476,387.76
Maple syrup, gallons, 1892.....	51	Water surface, acres, 1892.....	4,277.12
Butter, pounds.....	54,120	Number of farms, 1892.....	206
Cheese, pounds.....	120		

FARM STOCK, 1892.

Number of milch cows.....	2,565
Number of horses, all ages.....	4,000
Number of cattle, all ages, including milch cows.....	5,207
Number of sheep.....	2,375
Number of hogs.....	917
Personal property.....	\$448,294

WINONA COUNTY.

(Population, 1890, 33,797; County seat, Winona.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	23,029	Bushels..... 362,064	15.70	21,321
Oats.....	28,914	"..... 985,171	34.10	30,656
Corn.....	20,440	"..... 633,207	31.00	19,156
Barley.....	38,741	"..... 1,148,432	29.60	47,950
Rye.....	1,964	"..... 32,654	16.70	2,920
Buckwheat.....	619	"..... 7,647	12.40	671
Potatoes.....	1,804	"..... 186,155	.....	1,885
Beans.....	16	"..... 322	.....	24
Sugar cane.....	13	Syrup, gal's..... 693	.....	4
Cultivated hay.....	25,585	Tons..... 33,932	.....	26,073
Flax seed.....	3,804	Bushels..... 59,808	15.70	2,680
Other products.....	7,141	.....	.....	5,572
Total acres cultivated.....	152,060	.....	.....	158,862
Acres increase in 1892.....	6,802	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	1,721	Honey, pounds.....	16,769
Timothy seed, bushels.....	17,360	Butter, pounds.....	636,515
Clover seed, bushels.....	226	Cheese, pounds.....	400
Apple trees, growing.....	25,523	Wool, pounds, fall '91.....	6,416
Apple trees, bearing.....	10,342	Wool, pounds, spring '92.....	19,920
Apples, bushels.....	14,220	Land surface, acres, 1892.....	406,325.09
Grape vines, bearing.....	3,413	Water surface, acres, 1892.....	2,584.81
Grapes, pounds.....	14,506	Number of creameries, 1892.....	4
Tobacco, pounds.....	500	Number of farms, 1892.....	1,878
Bees, number of hives.....	1,426		

FARM STOCK, 1892.

Number of milch cows.....	9,686
Number of horses, all ages.....	8,196
Number of cattle, all ages, including milch cows.....	19,009
Number of sheep.....	3,960
Number of hogs.....	7,687
Personal property.....	\$3,068,947

WRIGHT COUNTY.

(Population, 1890, 24,164; County seat, Buffalo.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	36,969	Bushels..... 834,651	22.50	42,166
Oats.....	7,924	"..... 317,808	40.10	8,167
Corn.....	9,474	"..... 304,112	32.10	10,177
Barley.....	178	"..... 5,541	31.10	224
Rye.....	943	"..... 16,256	17.20	1,519
Buckwheat.....	45	"..... 614	13.60	22
Potatoes.....	963	"..... 123,175	.....	888
Beans.....	30	"..... 304	.....	23
Sugar cane.....	87	Syrup, gal'ns 8,890	.....	73
Cultivated hay.....	2,936	Tons..... 3,742	.....	2,706
Flax seed.....	63	Bushels..... 797	12.70	50
Other products.....	281	.....	.....	347
Total acres cultivated.....	59,923	.....	.....	66,361
Acres increase in 1892.....	6,438	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	18,884	Honey, pounds.....	15,515
Timothy seed, bushels.....	74	Maple syrup, gallons, 1892.....	1,414
Clover seed, bushels.....	66	Butter, pounds.....	341,276
Apple trees, growing.....	5,120	Cheese, pounds.....	7,335
Apple trees, bearing.....	3,272	Wool, pounds, fall '91.....	13,603
Apples, bushels.....	2,037	Wool, pounds, spring '92.....	27,740
Grape vines, bearing.....	1,925	Land surface, acres, 1892.....	424,353.82
Grapes, pounds.....	8,032	Water surface, acres, 1892.....	32,565.50
Tobacco, pounds.....	427	Number of farms, 1892.....	1,937
Bees, number of hives.....	544	.....	.....

FARM STOCK, 1892.

Number of milch cows.....	11,107
Number of horses, all ages.....	9,385
Number of cattle, all ages, including milch cows.....	19,423
Number of sheep.....	9,828
Number of hogs.....	6,414
Personal property.....	\$1,442,761

YELLOW MEDICINE COUNTY.

(Population, 1890, 9,854; County seat, Granite Falls.)

AGRICULTURE.

Product.	Acres, 1891.	Yield, 1891.	Yield per acre.	Acres, 1892.
Wheat.....	73,484	Bushels..... 1,585,007	21.60	89,873
Oats.....	14,507	"..... 543,970	37.50	17,335
Corn.....	7,241	"..... 123,794	17.10	6,995
Barley.....	1,033	"..... 30,545	29.60	1,921
Rye.....	42	"..... 2,063	48.90	11
Buckwheat.....	1	"..... 12	13.00	1
Potatoes.....	414	"..... 32,750	.....	490
Beans.....	6	"..... 54	.....	3
Sugar cane.....	1	Syrup, gal'ns 150	.....	.....
Cultivated hay.....	460	Tons..... 910	.....	608
Flax seed.....	6,734	Bushels..... 65,814	9.80	1,561
Other products.....	145	.....	.....	155
Total acres cultivated.....	104,067	.....	.....	118,948
Acres increase in 1892.....	14,881	.....	.....	.....

MISCELLANEOUS, 1891.

Wild hay, tons.....	35,045	Bees, number of hives.....	132
Timothy seed, bushels.....	283	Honey, pounds.....	2,325
Clover seed, bushels.....	1	Butter, pounds.....	273,177
Apple trees, growing.....	1,930	Cheese, pounds.....	245
Apple trees, bearing.....	424	Wool, pounds, fall '91.....	9,509
Apples, bushels.....	218	Wool, pounds, spring '92.....	16,658
Grape vines, bearing.....	37	Land surface, acres, 1892.....	481,664.25
Grapes, pounds.....	50	Water surface, acres, 1892.....	6,734.01
Tobacco, pounds.....	10	Number of farms, 1892....	907

FARM STOCK, 1892.

Number of milch cows.....	7,044
Number of horses, all ages.....	7,806
Number of cattle, all ages, including milch cows.....	14,320
Number of sheep.....	5,714
Number of hogs.....	2,781
Personal property.....	\$995,606

CHAPTER III.

MISCELLANEOUS STATISTICS.

**COMPILED FROM OFFICIAL REPORTS AND OTHER SOURCES,
FOR 1892.**

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STATEMENT I.

COUNTIES IN MINNESOTA.

List of Counties, with Date of their Creation, and County Seat.

COUNTIES.	COUNTY SEAT.	DATE.
Aitkin.....	Aitkin.....	May 23, 1857.
Anoka.....	Anoka.....	May 23, 1857.
Becker.....	Becker.....	March 18, 1858.
*Beltrami.....	Detroit.....	February 28, 1866.
Benton.....	Sauk Rapids.....	October 27, 1849.
Big Stone.....	Ortonville.....	February 20, 1862.
Blue Earth.....	Mankato.....	March 5, 1853.
Brown.....	New Ulm.....	February 20, 1855.
Carlton.....	Carlton.....	May 23, 1857.
Carver.....	Chaska.....	February 20, 1855.
*Cass.....	Montevideo.....	September 1, 1851.
Chippewa.....	Center City.....	February 20, 1862.
Chisago.....	Moorhead.....	September 1, 1851.
Clay.....	Grand Marais.....	March 2, 1852.
Cook.....	Windom.....	March 9, 1874.
Cottonwood.....	Brainerd.....	May 23, 1857.
Crow Wing.....	Hastings.....	May 23, 1857.
Dakota.....	Mantorville.....	October 27, 1849.
Dodge.....	Alexandria.....	February 20, 1855.
Douglas.....	Blue Earth City.....	March 8, 1858.
Fairbault.....	Preston.....	February 20, 1855.
Fillmore.....	Albert Lea.....	March 5, 1853.
Freeborn.....	Red Wing.....	February 20, 1855.
Goodhue.....	Elbow Lake.....	March 5, 1853.
Grant.....	Minneapolis.....	March 6, 1853.
Hennepin.....	Caledonia.....	March 6, 1852.
Houston.....	Park Rapids.....	February 23, 1854.
Hubbard.....	Cambridge.....	February 26, 1883.
Isanti.....	Grand Rapids.....	February 13, 1857.
Itasca.....	Jackson.....	October 29, 1849.
Jackson.....	Mora.....	May 23, 1857.
Kanabec.....	Willmar.....	March 13, 1858.
Kandiyohi.....	Hallmar.....	March 20, 1858.
Kittson.....	Madison.....	February 25, 1879.
Lac qui Parle.....	Two Harbors.....	November 3, 1871.
Lake.....	Le Sueur Center.....	March 1, 1856.
Le Sueur.....	Lake Benton.....	March 5, 1853.
Lincoln.....	Marshall.....	March 6, 1873.
Lyon.....	Glencoe.....	November 2, 1869.
McLeod.....	Fairmont.....	March 1, 1856.
Martin.....	Warren.....	May 23, 1857.
Marshall.....	Litchfield.....	February 25, 1879.
Meeker.....	Princeton.....	February 23, 1856.
Miller.....	Little Falls.....	May 23, 1857.
Morrison.....	Austin.....	February 25, 1858.
Mower.....	Slayton.....	February 20, 1855.
Murray.....	St. Peter.....	May 23, 1857.
Nicollet.....	Worthington.....	March 5, 1853.
Nobles.....	Ada.....	May 23, 1857.
Norman.....	Rochester.....	November 29, 1881.
Olmsted.....	Fergus Falls.....	February 20, 1855.
Otter Tail.....	Pine City.....	March 15, 1858.
Pine.....	Pipestone City.....	March 31, 1856.
Pipestone.....	Orookston.....	May 23, 1857.
Polk.....	Glenwood.....	July 20, 1858.
Pope.....	St. Paul.....	February 20, 1862.
Ramsey.....	Redwood Falls.....	October 27, 1849.
Redwood.....	Beaver Falls.....	February 6, 1862.
Benvenue.....		February 20, 1855.

*Unorganized.

COUNTIES—Continued.

COUNTIES.	COUNTY SEAT.	DATE.
Rice.....	Faribault.....	March 5, 1853.
Rock.....	Luverne.....	March 23, 1857.
St. Louis.....	Duluth.....	March 1, 1858.
Scott.....	Shakopee.....	March 5, 1858.
Sherburne.....	Elk River.....	February 25, 1856.
Bibley.....	Henderson.....	March 5, 1853.
Stearns.....	St. Cloud.....	February 20, 1855.
Steele.....	Owatonna.....	February 20, 1855.
Stevens.....	Morris.....	February 20, 1860.
Swift.....	Benson.....	March 4, 1870.
Todd.....	Long Prairie.....	February 20, 1862.
Traverse.....	Wheaton.....	February 20, 1862.
Wabasha.....	Wabasha.....	October 27, 1849.
Wadena.....	Wadena.....	July 11, 1853.
Waseca.....	Waseca.....	February 27, 1857.
Washington.....	Stillwater.....	October 27, 1849.
Watsonwan.....	St. James.....	November 6, 1860.
Wilkin.....	Brackeauridge.....	March 6, 1868.
Winona.....	Winona.....	February 23, 1849.
Wright.....	Buffalo.....	February 20, 1855.
Yellow Medicine.....	Granite Falls.....	March 6, 1871.

STATEMENT II.

Area of the Counties of Minnesota in Square Miles and Acres.

COUNTIES.	LAND.		WATER.		TOTAL.	
	Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.
Aitkin.....	1,821.39	1,165,691.90	173.58	111,090.48	1,994.97	1,276,782.38
Anoka.....	424.88	271,925.66	20.10	12,860.82	444.98	284,786.48
Becker.....	1,907.97	1,836,687.09	137.62	88,073.66	1,445.41	925,060.75
Beltrami.....	4,969.44	3,180,445.27	1,037.68	664,109.46	6,007.12	3,844,554.73
Benton.....	402.81	257,798.90	3.55	2,275.41	406.36	260,074.31
Big Stone.....	494.53	316,497.42	41.78	26,737.33	536.31	343,234.75
Blue Earth.....	734.09	475,582.34	33.79	21,619.39	776.88	497,201.73
Brown.....	605.91	387,733.30	10.84	6,937.52	616.75	394,730.82
Carlton.....	857.72	548,942.09	9.47	6,067.91	867.19	555,000.00
Carver.....	354.15	226,652.28	22.35	14,307.30	376.50	240,969.58
Cass.....	2,667.78	1,707,382.00	629.76	403,041.25	3,297.54	2,110,623.25
Chippewa.....	578.54	370,269.93	15.67	10,027.23	594.21	380,297.16
Chisago.....	421.02	269,451.12	30.64	19,611.38	451.66	289,062.50
Clay.....	1,003.92	668,124.66	23.41	14,984.16	1,067.37	683,108.82
Cook.....	1,406.84	900,378.49	273.56	175,076.51	1,680.40	1,075,455.00
Cottonwood.....	639.87	407,594.35	13.52	8,655.65	653.38	416,250.00
Crow Wing.....	824.04	527,387.51	127.46	81,570.49	951.50	608,958.00
Dakota.....	605.87	387,753.96	5.45	3,498.61	611.32	391,242.57
Dodge.....	437.43	279,956.47	1.22	782.43	438.65	280,738.90
Douglas.....	626.58	401,014.74	96.08	61,486.88	722.66	462,500.62
Faribault.....	709.43	454,033.32	14.29	9,151.21	723.72	463,184.53
Fillmore.....	864.22	553,101.90	2.99	1,912.64	867.21	555,014.44
Freeborn.....	701.94	449,212.53	20.74	13,271.87	722.68	462,514.40
Goodhue.....	764.58	480,329.56	20.21	12,946.06	784.79	502,265.62
Grant.....	544.15	354,256.21	34.13	11,843.03	578.28	370,099.24
Hennepin.....	551.44	352,918.67	70.03	44,821.30	621.47	397,739.98
Houston.....	568.75	363,998.07	11.10	7,104.17	579.85	371,102.24
Hubbard.....	522.83	334,622.87	62.57	40,045.25	585.40	374,657.12
Isanti.....	416.61	266,629.70	41.24	26,305.86	457.81	383,025.65
Itasca.....	5,622.57	3,624,044.12	116.31	138,438.89	5,738.88	3,762,483.01
Jackson.....	696.98	446,066.45	25.68	16,434.75	722.66	462,501.20
Kanabec.....	527.40	337,535.89	14.50	9,336.41	541.90	346,872.30
Kandiyohi.....	776.72	497,101.35	90.42	57,867.69	867.14	54,967.04
Kittson.....	2,148.80	1,375,213.27	15.95	10,260.73	2,164.75	1,385,440.00
Lac qui Parle.....	770.02	492,609.93	1.91	1,237.57	771.93	494,037.40
Lake.....	2,076.42	1,328,904.43	322.52	206,420.00	2,398.94	1,535,325.43
Le Sueur.....	444.52	284,496.41	27.96	17,891.77	472.48	302,388.18
Lincoln.....	522.43	334,355.00	19.56	12,517.30	541.99	346,872.30
Lyon.....	709.50	454,072.72	11.16	7,150.08	720.66	461,222.80

STATEMENT II—*Concluded.*

Area of the Counties of Minnesota in Square Miles and Acres.

COUNTIES.	Land.		Water.		Total.	
	Square miles.	Acres.	Square miles.	Acres.	Square miles.	Acres.
McLeod.....	485.14	310,488.63	22.31	14,283.23	507.45	324,771.86
Marshall.....	1,673.64	1,071,129.11	1.40	895.01	1,675.04	1,072,024.12
Martin.....	704.73	451,021.05	19.16	12,667.35	723.88	463,688.40
Meeker.....	596.00	381,443.02	37.62	24,075.56	633.62	405,518.58
Mille Lacs.....	571.09	365,497.65	117.10	74,945.53	688.19	440,443.18
Morrison.....	1,083.52	693,454.07	5.57	3,564.78	1,089.09	697,018.85
Mower.....	709.07	553,803.10	2.11	1,352.65	711.18	655,155.75
Murray.....	695.14	444,891.27	26.42	16,909.93	721.56	461,801.20
Nicollet.....	435.75	273,782.41	28.86	18,489.37	464.61	297,251.78
Nobles.....	710.75	454,877.12	16.91	10,827.04	727.66	465,704.16
Norman.....	1,435.11	918,472.60	23.21	14,833.55	1,458.32	933,306.15
Olmsted.....	658.42	421,391.08	3.94	2,520.20	662.36	423,911.24
Otter Tail.....	1,935.90	1,270,977.77	254.30	162,748.67	2,240.20	1,433,726.44
Pine.....	1,419.74	908,632.83	24.76	15,845.68	1,444.50	924,477.58
Pipestone.....	462.32	295,881.75	9.95	611.76	462.27	296,493.51
Polk.....	3,117.37	1,995,054.58	41.91	26,818.67	3,150.18	2,021,873.25
Pope.....	667.61	427,269.27	55.08	35,251.93	722.69	462,521.20
Ramsey.....	173.70	111,168.71	13.45	8,605.34	187.15	119,774.05
Redwood.....	870.50	557,122.74	23.33	14,930.13	893.83	572,052.87
Renville.....	971.23	621,650.89	9.88	6,385.69	981.11	628,036.58
Rice.....	486.83	311,505.87	17.27	11,054.83	504.00	322,560.70
Rock.....	480.83	307,736.11	1.84	1,174.04	482.67	308,910.15
St. Louis.....	5,837.26	3,735,846.26	774.49	495,674.68	6,611.75	4,230,520.94
Scott.....	342.73	219,344.22	15.87	10,157.58	358.60	229,501.80
Sherburne.....	448.72	287,180.40	20.16	12,905.72	468.88	300,086.12
Sibley.....	566.89	362,808.14	30.84	19,737.61	597.73	382,545.75
Stearns.....	1,272.22	814,220.09	57.85	37,021.27	1,330.07	851,241.36
Steele.....	426.19	272,761.47	4.40	2,817.69	430.59	275,579.16
Stevens.....	555.21	355,336.19	16.27	10,411.81	571.48	365,748.00
Swift.....	743.05	475,553.86	14.68	9,392.08	757.73	484,945.45
Todd.....	965.98	618,225.14	42.36	27,111.58	1,008.34	645,336.72
Traverse.....	567.91	363,463.46	13.92	8,906.00	581.83	372,369.46
Wabasha.....	555.54	355,514.17	39.09	25,018.07	594.63	380,532.24
Wadena.....	707.43	452,751.16	15.35	9,828.84	722.78	462,580.00
Waseca.....	419.00	268,161.75	18.01	11,524.16	437.01	279,685.91
Washington.....	408.87	261,675.02	21.14	13,530.43	430.01	275,205.35
Watonwan.....	432.89	277,051.92	2.56	1,638.00	435.45	278,689.92
Wilkin.....	744.35	476,387.76	6.69	4,277.12	751.04	480,664.88
Winona.....	634.88	406,325.09	4.04	2,584.81	638.92	408,909.90
Wright.....	633.05	424,353.82	50.92	32,585.50	713.97	456,939.30
Yellow Medicine.....	752.60	481,664.26	10.52	6,734.01	763.12	488,398.27
Totals.....	78,649.00	50,335,867.19	5,637.53	3,608,012.05	84,286.53	53,943,879.24

(L. R. No. 3, 1893.)

STATEMENT III.

U. S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

Office of the Local Forecast Official, }
St. Paul, Minn., January 5, 1893. }

Hon. H. Stockenstrom, Commissioner of Statistics of the State of Minnesota.

SIR: Your request, made in letter of the 3rd inst., is respectfully complied with. Enclosed please find meteorological report for this vicinity for the year 1892.

Very respectfully,

P. F. LYONS,
Forecast Official for Minnesota.

WEATHER REVIEW FOR THE YEAR 1892.

U. S. DEPARTMENT OF AGRICULTURE, }
 WEATHER BUREAU, }
 ST. PAUL, MINN., Jan. 1, 1893. }

Latitude 44° 58'. Longitude west from Greenwich 93° 05'.
 Longitude west from Washington 16° 05'.

A review of the weather for St. Paul and vicinity for the year 1892, shows a mean barometer corrected for elevation, of 30.07 inches; mean temperature of 42.4 degrees; total precipitation (rains and melted snow) of 32.55 inches; mean cloudiness on a scale of 0 to 10, "0" representing an entirely cloudless sky and "10" an entirely cloudy one of 5.6; mean relative humidity of 72.3 per cent.; total wind movement, 63,531 miles; highest wind velocity and direction, 44 miles, from the northwest. The winter months were warmer than average, but the deficiency in temperature during the spring and summer seasons made the annual mean nearly one degree below normal. The excessive rainfall of the summer season caused an excess of 4.73 inches for the year. The last killing frost of the spring season occurred May 20th, and the first of the fall season was noted October 19. Eight frosts occurred in October prior to the 19th, but there was an interval of five months that the thermal conditions were not adverse to vegetation. All the staple crops had matured long before Oct. 19th. The maximum temperature of the year was 90 degrees, registered June 11 and 12, and July 23; the minimum was 25 degrees below zero, registered January 19. The temperature went to 90 degrees and a small fraction above it on two days, and it went below 32 degrees or "freezing point" on 159 days. There were 87 days during which the temperature remained below 32 degrees at all times, both day and night. The year had 96 clear, 149 fair, and 121 cloudy days, and 106 on which .01 of an inch or more of rain or melted snow fell. There were 31 electrical disturbances of the nature of thunder storms, April and May had two each; June and July, eight each; August had seven, September, three and October one. More meridian manifestations of that force were seen in the seven auroral or polar light displays, of which three were observed in July and also in September, and one in October. There were only two hail storms during the year. All that is of additional importance is given in detail, in the following tables.

P. F. LYONS,
 Forecast Official Observer.

TABLE NO. 1.

BAROMETER AND TEMPERATURE, ST. PAUL, 1892.

MONTH.	Mean Barome- ter cor- rected to sea-lev'l	TEMPERATURE.				
		Mean.	Highest.	Date.	Lowest.	Date.
January.....	30.19	10.0	44	30	-25	19
February.....	30.17	20.8	42	26	-18	15
March.....	30.14	27.9	56	25	-2	16
April.....	30.04	42.2	65	1	17	9
May.....	29.93	50.8	72	17 & 24	30	20
June.....	29.92	65.2	90	11 & 12	43	2
July.....	30.02	71.3	90	23	51	3
August.....	30.01	69.4	87	16	44	31
September.....	30.03	62.6	86	23	42	16
October.....	30.05	51.2	83	2	24	25
November.....	30.11	27.4	52	5	1	23
December.....	30.18	9.6	41	2	-17	26
Annual means.....	30.07	42.4	.....	.....	.....	.....

NOTE: A dash (—) or minus sign, when used in connection with temperature figures, means below zero.

TABLE NO. 2.
Cloudiness, Precipitation, Etc.

YEAR 1892.	DAYS.			Mean cloudiness on a scale of 0 to 10. "0" entirely clear; "10" entirely cloudy.	No. of days without .01 inch or more of rain or melted snow.	Total precipitation in inches and hundredths.	Mean relative humidity.	Mississippi river stages of water in feet and tenths.			
	Cloudi-ness.	Partly cloudy.	Cloudy.					Highest.	Date.	Lowest.	Date.
January.....	14	12	5	3.5	1	.02	77	Frozen	11	.....	.....
February.....	7	6	16	6.8	10	1.44	89	.....	11-12-13	2.0	.....
March.....	13	7	11	5.1	8	.75	83	5.0	8-4	3.1	.....
April.....	4	13	13	6.7	7	.97	63	5.7	.....	4.1	.....
May.....	0	14	17	7.7	21	5.17	68	12.6	26	8.6	15-30
June.....	3	16	11	6.6	15	7.50	71	11.5	.....	4.5	17-18
July.....	7	20	4	4.9	11	9.04	70	8.4	1	3.3	29
August.....	10	12	9	4.9	5	3.66	72	8.4	1	2.9	28
September.....	13	10	7	4.3	6	1.72	74	4.1	14	2.2	.....
October.....	15	12	4	4.0	6	1.89	68	3.1	6	.....	.....
November.....	4	13	13	6.8	6	1.36	71	2.1	1-2	1.0	24
December.....	6	14	11	6.1	8	.53	72	Frozen	.....	.....	.....
Sums.....	98	149	131	67.4	106	32.55	878	.....	.....	.....	.....
Means.....	.....	.....	.....	5.6	.....	2.71	73.2	.....	.....	.....	.....

TABLE No. 3.

Wind Data.

MONTH.	Total wind movement in miles.	WIND DIRECTION. NUMBER OF TIMES OBSERVED BLOWING FROM THE									Highest Velocity.	Direction.	Date.
		N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.			
January.....	4,949	0	0	1	8	4	13	20	5	11	28	N.W.	29
February.....	5,354	5	5	6	17	1	5	12	6	1	24	S.	13
March.....	4,545	1	4	7	16	3	1	5	18	7	38	W.	10
April.....	7,381	1	12	7	9	4	9	9	7	2	40	S.W.	28
May.....	6,580	7	13	5	9	2	5	8	15	0	38	N.W.	19
June.....	4,964	3	7	8	11	4	9	8	9	1	30	N.W.	19
July.....	4,360	2	4	4	26	5	4	5	11	1	35	E.	24
August.....	4,167	2	5	2	24	2	3	8	10	6	43	N.W.	8
September.....	5,094	2	5	4	23	6	3	11	3	3	24	N.W.	25
October.....	4,963	1	3	7	14	2	11	9	11	4	44	N.W.	28
November.....	6,184	1	6	2	21	1	6	14	9	0	36	W.	30
December.....	4,990	0	2	4	16	5	5	13	17	0	24	N.W.	7
Sums.....	63,531	25	66	57	194	39	74	120	121	36			

NOTE. The wind direction is determined from the daily 7 a. m. and 7 p. m. 90th meridian time observations.

P. F. LYONS,

Forecast Official Observer.

STATEMENT IV.

REPORTS FROM THE SURVEYORS GENERAL OF LOGS AND LUMBER.

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.:

DEAR SIR: I herewith respectfully submit my annual report for year 1892, as follows:

	SCALED.		SAWED.	MANUFACTURED.			
	Logs.	Feet.	Feet, logs.	Feet, Lumber.	Shingles	Lath.	Pickets.
Stillwater.....	3,250,693	425,000,000	100,000,000	100,980,000	49,300,000	28,900,000	7,500,000
South Stillwater			39,768,000	43,000,000	14,000,000	16,000,000	1,000,000
Lakeland.....			10,412,000	11,600,000	4,214,000	4,500,000	500,000
Afton.....			7,000,000	7,500,000	2,000,000	1,300,000	250,000
Hudson.....			11,965,000	12,000,000	3,000,000	1,500,000	300,000
Prescott.....			2,395,000	2,500,000	500,000	700,000	200,000
Point Douglas.....			975,000	1,000,000	100,000	100,000	25,000
Total.....	3,250,693	425,000,000	172,515,000	178,580,000	73,114,000	53,000,000	8,775,000

JACOB BEAN, Surveyor General, 1st District.
By F. B. YATES, Deputy.

MINNEAPOLIS, MINN., Dec. 31, 1892.

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.:

DEAR SIR: I have the honor to report the following amount of logs that I have scaled, also the estimated amount of logs sawed, the amount of lumber, lath, shingles and pickets manufactured at the places named and the amount of logs carried over for the year 1892 in the Second District of Minnesota.

	SCALED.		SAWED.	MANUFACTURED.				CARRIED OVER.
	Logs.	Feet.	Feet logs.	Feet lumber.	Shingles.	Lath.	Pick-ets.	Feet logs.
Minneapolis.	3,493,381	403,088,040	402,963,040	494,800,250	221,610,590	112,840,470	.....	30,000,000
Above M'pls								185,000,000
St. Paul.....	104,987	17,237,700						
Hastings			11,000,000	12,500,000	2,000,000	1,500,000		200,000
St. Cloud ...	156,192	15,505,300	15,565,840	20,354,080	8,791,000	4,406,920		
Sauk Rapids	43,866	5,078,240	5,140,100	5,150,100	2,734,000	1,900,000	1,300	1,500,000
Anoka.....	9,870	1,058,570	10,149,500	12,067,204	2,407,000	3,424,700		
Elk River....	29,770	5,606,400	5,606,400	6,230,560	3,526,756	948,000		
Monticello			1,000,000	1,500,000				
Little Falls.	152,769	26,965,330	26,624,570	*31,000,000				
Brainerd....			13,122,230	12,996,408	10,724,500	2,944,050	1,100	1,000,000
Atkin.....			1,000,000	1,200,000				
Frazee City.			1,461,218	1,394,000	1,097,000	300,000		
Milaca.....			*8,500,000	9,500,000				
Gravelville..			200,000	220,000				
Motley.....			1,375,000	1,489,000	805,250	428,000		
Royalton....			*1,500,000	2,000,000				
Total	3,990,844	474,629,580	505,407,598	612,511,800	254,566,090	128,690,170	2,400	217,700,000

* Estimated.

S. S. BROWN, Surveyor General,
Second District, Minnesota.
By SINCLAIR, Deputy.

OFFICE OF SURVEYOR GENERAL OF LOGS AND LUMBER, }
FOURTH MINNESOTA DISTRICT, }
WABASHA, MINN., January 10, 1893. }

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.

DEAR SIR—I have the honor to submit herewith the amount logs scaled under my supervision for the year 1892. Minnellska, 1,712,845 logs; 231,589,950 feet.

S. WHITMORE,
Surveyor General Fourth Minnesota Dist.

OFFICE OF SURVEYOR GENERAL FIFTH DISTRICT OF MINNESOTA, }
DULUTH, Dec. 30, 1892. }

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.

DEAR SIR:—Below please find report of logs cut and manufactured in this district for the year 1892:

DULUTH AND VICINITY.	No. logs.	Amt. Feet.	Lumber.	Lath.	Shingles.	Carried over.	Estim. cut, 1892-3.
Duluth and vicinity	1,325,736	165,717,000	152,695,000	28,063,000	31,294,000	10,260,000	142,500,000
Little and Big Fork	16,000	2,500,000	.....	.....	.....	.....	10,000,000
Eastern Minn. R. R.	18,609	1,657,730	.....	.....	.....	.....	1,500,000
Iron Range R. R.	79,128	9,891,000	11,000,000	3,000,000	6,500,000	.....	30,000,000
Cloquet	904,000	113,110,000	118,000,000	18,306,000	62,635,000	23,000,000	100,000,000
Northern Pacific Junction	104,000	13,000,000	13,000,000	2,000,000	2,000,000	.....	13,000,000
Total	2,619,553	327,275,730	319,845,000	53,544,000	108,384,000	42,760,000	327,000,000

GEO. F. ASH,

Surveyor General Logs and Lumber, Fifth District, Minn.

ALBERT KAISER, Surveyor General. WM. A. LANOTOT, Deputy.
 OFFICE OF SURVEYOR GENERAL OF LOGS AND LUMBER, }
 SEVENTH DISTRICT, OF MINNESOTA. }
 CROOKSTON, MINN., January 9, 1893. }

Hon. H. Stockenstrom, St. Paul, Minn.

DEAR SIR:—As per your request herewith hand you figures of logs cut in this district during season of 1891-1892. No. of logs, 37,267; feet, 4,095,774. Estimates cut for 1892, 1893, unknown. I would say, relative to above, that it is only what logs were cut in government or school lands. The main cut of last season was not reported to this office at all, consequently can not give you the figures. The contractors agreeing on a scaler, thus saving themselves the expense of official scale.

Respectfully,

ALBERT KAISER,
 Surveyor General.

STATEMENT V.

REPORTS FROM THE LAND DEPARTMENTS OF THE RAIL-ROAD COMPANIES.

ST. PAUL & DULUTH RAILROAD, }
 LAND DEPARTMENT, }
 ST. PAUL, MINN., January 13, 1893. }

Hon. H. Stockenstrom, Commissioner Statistics, St. Paul, Minn.:

DEAR SIR:—In compliance with the request contained in your favor of January 5, 1893, I herewith enclose a statement of the lands acquired and sold by this company during the year ending December 31, 1892, and also showing lands remaining unsold January 1, 1893.

Yours truly,

HOPEWELL CLARKE,
 Land Commissioner.

Acres on hand December 31, 1891.....	1,107,831.16
Add cancellations of land contracts during the year 1891....	488.48
Total.....	1,108,329.64
Less sales made during the year ending December 31, 1892..	11,851.83
Acres on hand December 31, 1892.....	1,096,467.81
Situate in the following counties:	
Aitkin.....	172,662.21
Anoka.....	1,166.19
Benton.....	4,319.53
Carlton.....	149,391.26
Chisago.....	5,429.89
Cook.....	8,938.02
Crow Wing.....	30,365.91
Isanti.....	11,305.82
Itasca.....	9,016.37
Kanabec.....	103,850.65
Lake.....	8,688.99
Mille Lacs.....	47,373.91
Morrison.....	34,544.17
Pine.....	350,500.37
Sherburne.....	2,766.01
St. Louis.....	154,988.51
Washington.....	1,160.00
Total.....	1,096,467.81

MIN. CENT., HASTINGS & DAKOTA, AND ST. PAUL & CHICAGO RYS., }
 LAND DEPARTMENT,
 ST. PAUL, MINN., January 7, 1893. }

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.

DEAR SIR—Replying to yours of the 5th inst, I herewith submit reports of the three land departments in my charge:

HASTINGS AND DAKOTA LAND DEPARTMENT.

Acres on hand December 31, 1891.....	51,340
Acres on hand December 31, 1892.....	24,796
Acres sold during 1892.....	26,544

MINNESOTA CENTRAL LAND DEPARTMENT.

Acres on hand December 31, 1891.....	4,400
Acres on hand December 31, 1892.....	3,504
Acres sold during 1892.....	896

ST. PAUL & CHICAGO LAND DEPARTMENT.

Acres on hand December 31, 1891.....	79,902
Acres on hand December 31, 1892.....	72,443
Acres sold during 1892.....	7,459

Respectfully yours, GEO. E. SKINNER,
 Land Commissioner.

WISCONSIN, MINNESOTA & PACIFIC RAILWAY, }
 MINNEAPOLIS, MINN., Jan. 17, 1893. }

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.

DEAR SIR—Replying to yours of the 5th inst, I hand you the following report of this company's lands:

Acreage deeded from State prior to Dec. 31, 1891..	160,966.89
Acreage sold prior to December 31, 1891.....	36,731.79
Acreage on hand December 31, 1891.....	124,235.10
Contracts cancelled during 1892.....	160.97
Deeds from State during 1892.....	271.28
	127,667.35
Acreage sold during 1892.....	4,671.13
Acreage on hand December 31, 1892.....	122,996.22

Yours truly, L. B. ARNOLD, Secretary

ST. PAUL & NORTHERN PACIFIC RAILWAY CO., }
 LAND DEPARTMENT,
 ST. PAUL, MINN., January 26, 1893. }

Hon. H. S. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.

DEAR SIR;—In compliance with your request of January 5th, I beg leave to report that the Land Grant of the St. Paul and Northern Pacific Railway company (formerly the Western Railway Company of Minnesota) is not yet adjusted. The Grant embraces ten sections per mile, from Watab to Brainerd, a distance of 53 and $\frac{1}{4}$ miles, making 533 sections, or 341,120 acres. The adjusted selection lists cover only 277,977.21 acres.

The sales made from the lands embraced within the limits of the Grant to December 31, 1892, aggregate 103,590.12 acres, of which the number of acres sold during the year 1892 was 5,602.72.

Yours truly, A. G. POSTLETHWAITE,
 Land Commissioner.

STATEMENT VI.

REPORTS FROM UNITED STATES LAND OFFICES.

UNITED STATES LAND OFFICE }
DULUTH, MINN., January 6th, 1893. }

DEAR SIR:—Complying with your request of the 5th of Jan. 1893, I have the honor to report the business of this office for the year 1892, as follows:

	No.	Acres.
Sales of public lands.....	414	39,619.29
Homestead entries.....	1,940	241,115.95
Pre-emption filings.....	15	2,250
Soldiers' and Sailors' declaratory statements.....	18	2,100
Final homestead entries.....	42	5,249.30
Military Bounty Land Warrants.....	6	560
Valentine Scrip.....	1	40
Agricultural College Scrip.....	1	160
Timber and Stone entries.....	223	26,760
Totals.....	2,660	318,214.54

Very respectfully,

MONROE NICHOLS, Register.

HON. H. STOCKENSTROM,
Commissioner of Statistics, St. Paul, Minn.

UNITED STATES LAND OFFICE, }
CROOKSTON, MINN., January 6th, 1893. }

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.

DEAR SIR:—In reply to your letter of the 5th inst., I note the following summary of the business of this office during the year ending December 31st, 1892:

	No.	Acres.
Cash entries.....	122	12,467.11
Homestead entries.....	597	84,579.41
Final homestead entries.....	414	61,441.52
Final timber culture entries.....	39	5,892.53
Totals.....	1,172	164,380.57

Very respectfully,

HUGH THOMPSON, Register.

UNITED STATES LAND OFFICE, }
TAYLORS FALLS, MINN., January 10, 1893. }

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.

DEAR SIR: The following statement shows the number of entries of each class and the number of acres disposed of in this district during the year 1892:

	No.	Acres.
Cash entries.....	20	2,885.15
Homesteads.....	94	10,227.09
Final homesteads.....	57	6,528.55
Total.....	171	19,640.79
Total cash received.....		\$5,022.33

Very respectfully,

ED. C. GOTTRY, Register.
J. WALFRID, Receiver.

UNITED STATES LAND OFFICE.
ST. CLOUD, MINN., January 10, 1893. }

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn.:

DEAR SIR: I have the honor to transmit herewith a statement of the number of entries, etc., made at this office during the year ending December 31, 1892, viz.:

	No.	Acres.
Cash entries.....	91	8,734.83
Homestead entries.....	544	63,074.12
Final homestead entries.....	338	42,966.15
Timber culture entries.....	2	320.00
Final timber culture entries.....	29	4,030.36
Pre-emption filings.....	3	480.00
Railroad selections.....	15	2,004.94
Totals.....	1,022	121,610.94

Very respectfully,

A. BARTO, Register.

STATEMENT VII.

FINAL ESTIMATES OF UNITED STATES DEPARTMENT OF AGRICULTURE FOR WHEAT, OATS AND CORN OF 1892.

BY HON. J. R. DODGE, STATISTICIAN.

Wheat, 1892.

STATES AND TERRITORIES.	Acres.	Bushels.	Value.
Maine.....	4,500	75,000	\$76,653
New Hampshire.....	2,350	38,000	38,305
Vermont.....	8,750	151,000	144,480
Massachusetts.....			
Rhode Island.....			
Connecticut.....			
New York.....	518,837	8,405,000	7,144,385
New Jersey.....	124,950	1,787,000	1,483,032
Pennsylvania.....	1,324,063	19,331,000	15,658,369
Delaware.....	94,705	1,231,000	923,374
Maryland.....	529,084	6,992,000	5,173,953
Virginia.....	799,089	7,591,000	5,769,279
North Carolina.....	716,942	5,090,000	4,530,356
South Carolina.....	144,316	938,000	872,360
Georgia.....	216,820	1,474,000	1,329,936
Florida.....			
Alabama.....	45,600	306,000	284,134
Mississippi.....	3,650	25,000	22,338
Louisiana.....			
Texas.....	445,065	5,475,000	4,105,910
Arkansas.....	163,058	1,337,000	1,069,861
Tennessee.....	898,915	8,540,000	5,806,991
West Virginia.....	402,077	4,362,000	3,226,668
Kentucky.....	985,977	11,635,000	7,795,134
Ohio.....	2,795,733	38,022,000	25,854,939
Michigan.....	1,622,737	23,854,000	15,982,337
Indiana.....	2,713,292	39,885,000	25,526,651
Illinois.....	1,751,249	28,370,000	17,873,247
Wisconsin.....	766,429	8,814,000	5,464,639
Minnesota.....	3,552,626	41,210,000	26,138,282
Iowa.....	631,063	7,257,000	4,264,335
Missouri.....	1,986,686	24,634,000	14,408,474
Kansas.....	4,070,724	70,831,000	36,831,911
Nebraska.....	1,253,564	15,670,000	7,634,775
South Dakota.....	2,541,348	31,767,000	16,301,064
North Dakota.....	2,868,729	34,998,000	18,199,217
Montana.....	41,761	898,000	619,625
Wyoming.....	5,775	101,000	66,702
Colorado.....	131,082	2,504,000	1,452,126
New Mexico.....	37,331	515,000	412,134
Arizona.....	10,891	170,000	132,622
Utah.....	102,573	1,775,000	1,100,198
Nevada.....	6,101	117,000	87,654
Idaho.....	76,961	1,693,000	1,015,753
Washington.....	523,530	9,005,000	5,222,726
Oregon.....	622,860	9,779,000	6,258,397
California.....	3,012,067	39,157,000	26,626,564
Total.....	38,564,430	515,949,000	322,111,881

Oats, 1892.

STATES AND TERRITORIES.	Acres.	Busbels.	Value.
Maine.....	124,501	4,009,000	\$1,844,019
New Hampshire.....	28,223	960,000	422,216
Vermont.....	106,580	3,784,000	1,626,944
Massachusetts.....	15,129	480,000	220,763
Rhode Island.....	4,179	123,000	60,408
Connecticut.....	24,473	619,000	278,625
New York.....	1,383,183	38,729,000	15,104,356
New Jersey.....	119,287	3,000,000	1,256,927
Pennsylvania.....	1,177,146	29,664,000	11,865,632
Delaware.....	22,152	428,000	162,463
Maryland.....	96,272	1,829,000	695,084
Virginia.....	488,539	5,472,000	2,133,998
North Carolina.....	549,717	5,332,000	2,309,515
South Carolina.....	360,679	3,682,000	1,914,708
Georgia.....	599,136	6,090,000	3,166,673
Florida.....	47,222	463,000	254,627
Alabama.....	364,810	3,721,000	1,597,742
Mississippi.....	146,607	1,554,000	777,017
Louisiana.....	34,533	421,000	210,652
Texas.....	619,456	15,177,000	5,767,135
Arkansas.....	317,000	4,988,000	1,995,063
Tennessee.....	553,035	7,466,000	2,837,070
West Virginia.....	164,084	2,871,000	1,176,944
Kentucky.....	596,557	10,917,000	4,030,287
Ohio.....	1,002,421	26,364,000	9,227,286
Michigan.....	968,944	27,809,000	9,733,043
Indiana.....	1,100,932	29,175,000	9,919,397
Illinois.....	2,854,105	75,063,000	23,269,518
Wisconsin.....	1,074,568	50,572,000	14,665,867
Minnesota.....	1,596,090	43,573,000	12,200,512
Iowa.....	3,773,254	95,841,000	24,918,370
Missouri.....	1,204,040	24,093,000	7,227,840
Kansas.....	1,547,175	44,094,000	11,464,567
Nebraska.....	1,615,393	43,131,000	9,920,128
South Dakota.....	702,369	18,472,000	4,248,630
North Dakota.....	472,080	12,510,000	3,502,834
Montana.....	66,323	1,910,000	764,041
Wyoming.....	15,300	438,000	166,280
Colorado.....	98,811	2,836,000	964,198
New Mexico.....	11,104	225,000	126,230
Arizona.....	.....	.....	.....
Utah.....	27,752	735,000	294,171
Nevada.....	.....	.....	.....
Idaho.....	24,634	714,000	264,323
Washington.....	92,282	3,184,000	1,114,305
Oregon.....	244,689	6,484,000	2,399,176
California.....	67,829	1,987,000	794,966
Total.....	27,063,835	661,035,000	\$209,253,611

Corn, 1892.

STATES AND TERRITORIES.	Acres.	Bushels.	Value.
Maine.....	13,287	472,000	\$316,082
New Hampshire.....	25,327	957,000	622,285
Vermont.....	43,229	1,643,000	1,051,329
Massachusetts.....	40,069	1,550,000	961,175
Rhode Island.....	9,132	305,000	192,156
Connecticut.....	43,997	1,618,000	941,006
New York.....	527,689	17,414,000	10,448,242
New Jersey.....	288,732	9,124,000	5,291,880
Pennsylvania.....	1,299,406	39,632,000	22,590,173
Delaware.....	201,893	3,775,000	1,661,176
Maryland.....	629,361	12,965,000	5,834,177
Virginia.....	1,703,706	26,067,000	13,815,362
North Carolina.....	2,485,010	25,347,000	13,687,435
South Carolina.....	1,591,677	16,713,000	9,526,187
Georgia.....	2,945,708	32,992,000	18,475,481
Florida.....	491,379	4,422,000	2,653,447
Alabama.....	2,573,621	30,666,000	15,946,412
Mississippi.....	1,990,684	27,272,000	13,908,909
Louisiana.....	1,071,568	15,859,000	7,929,603
Texas.....	3,441,211	73,642,000	33,138,862
Arkansas.....	1,962,524	34,344,000	16,141,760
Tennessee.....	3,018,431	61,274,000	26,347,884
West Virginia.....	636,534	14,322,000	8,020,328
Kentucky.....	2,953,020	68,806,000	27,522,146
Ohio.....	2,852,157	83,853,000	35,218,435
Michigan.....	928,719	23,218,000	10,680,299
Indiana.....	3,526,761	103,334,000	41,333,639
Illinois.....	6,310,202	165,327,000	61,171,098
Wisconsin.....	1,001,738	27,347,000	10,392,080
Minnesota.....	896,012	24,192,000	8,951,180
Iowa.....	7,074,930	200,221,000	64,070,566
Missouri.....	5,505,018	152,489,000	54,898,040
Kansas.....	5,952,067	145,825,000	45,205,873
Nebraska.....	5,572,523	157,145,000	44,000,642
South Dakota.....	794,011	17,706,000	5,843,127
North Dakota.....	17,515	375,000	149,928
Montana.....	1,080	21,000	14,364
Wyoming.....	2,060	38,000	23,134
Colorado.....	124,350	2,773,000	1,109,202
New Mexico.....	29,250	585,000	421,200
Arizona.....	4,650	81,000	52,894
Utah.....	8,750	158,000	91,350
Idaho.....	1,560	26,000	17,903
Washington.....	10,250	186,000	110,700
Oregon.....	13,400	288,000	161,336
California.....	72,500	2,197,000	1,208,213
Totals.....	70,626,658	1,628,464,000	\$642,146,630

STATEMENT VIII.

REPORTS FROM UNITED STATES CUSTOM HOUSES.

OFFICE OF THE COLLECTOR OF CUSTOMS, }
PORT OF ST. PAUL, MINN., }
January 23, 1893.

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn:

SIR:—In accordance with your request I have the honor to append the following statement of the business transactions of this office during the calendar year ending December 31, 1892.

Respectfully yours,

C. G. EDWARDS, Collector.

QUARTER.	Value of free goods imported.	Value of dutiable goods imported.	Total value of imports.	Amount of duties collected.
First quarter.....	\$19,872.00	\$235,117.00	\$254,989.00	\$120,520.64
Second quarter.....	20,172.00	173,022.00	193,194.00	85,485.44
Third quarter.....	207,763.00	243,635.00	451,418.00	113,308.17
Fourth quarter.....	73,631.00	220,531.00	294,162.00	104,868.15
Totals.....	\$321,458.00	\$602,305.00	\$1,223,763.00	\$424,177.40

OFFICE OF THE COLLECTOR OF CUSTOMS, }
PORT OF DULUTH, MINN., }
January 18, 1893.

Hon. H. Stockenstrom, Commissioner of Statistics, St. Paul, Minn:

SIR:—In compliance with your request of the 6th inst., I have the honor to enclose herewith Annual Statement of Commercial Transactions, District of Duluth, for 1892.

Very respectfully,

C. F. JOHNSON, Collector of Customs.

ANNUAL STATEMENT OF COMMERCIAL TRANSACTIONS IN
THE CUSTOMS DISTRICT OF DULUTH, 1892.

OFFICIAL STATISTICS.

I—ARRIVALS, CLEARANCES AND TONNAGE.

MONTH.	Foreign.		To'nage.	Coastwise.		Tonnage.	Total tonnage.
	Ar'v'ls	Ol'n'cs		Arrivals	Clearances.		
January.....	.....	1	22	1	1	44	66
April.....	1	3	33,666	70	65	183,686	187,352
May.....	33	31	48,329	240	265	365,360	613,680
June.....	41	37	52,556	200	215	464,614	517,170
July.....	40	34	43,166	253	235	529,633	572,799
August.....	42	41	55,005	211	215	488,357	543,362
September.....	27	24	32,359	208	212	488,897	521,256
October.....	26	21	32,072	191	195	464,411	497,383
November.....	15	15	21,462	137	130	324,049	345,511
December.....	2	5	1,647	9	7	10,417	12,064
Total.....	227	212	291,184	1,506	1,535	3,519,468	8,310,652

Total arrivals and clearances, 3,482.

II—COMPARATIVE STATEMENT OF ARRIVALS AND CLEARANCES, TONNAGE AND AVERAGE TONNAGE.

YEAR.	Total arrivals and clearances.	Tonnage.	Average tons.	Average tons.
1886.....	1,903	1,372,233	761	.....
1886.....	2,180	1,604,831	778	17
1887.....	2,475	2,021,781	812	34
1888.....	2,200	1,943,236	887	75
1889.....	2,525	2,452,123	972	85
1890.....	2,534	2,740,354	1,090	118
1891.....	2,995	3,268,031	1,125	35
1892.....	3,482	3,810,652	1,095	30

III—DULUTH TONNAGE.

	No. Vessels.	Tonnage.
1890.....	32	8.34
1891.....	35	8.21
1892.....	40	16.99

IV—IMPORTS AND EXPORTS.

1892.	Foreign imports and duties.				Domestic Exports.
MONTH.	Imports.	Duties.	Tonnage duty.	Total duties.	Value.
January.....	\$1,251	\$410.24	.....	\$410.24	.....
February.....	439	108.17	.....	108.17	.....
March.....	4,701	3,209.60	.....	3,209.60	.....
April.....	.....	.....	.....	.....	\$136,900
May.....	14,872	511.35	\$15.27	526.62	\$458,640
June.....	13,570	1,651.39	15.27	1,666.66	340,323
July.....	11,502	184.97	10.80	195.77	207,000
August.....	14,655	1,472.73	15.27	1,488.00	290,020
September.....	12,499	2,064.83	31.50	2,116.33	155,727
October.....	17,081	2,080.65	16.63	2,106.28	224,822
November.....	19,920	4,158.40	23.10	4,182.00	42,936
December.....	8,150	824.45	.....	824.45	2,068
Total.....	\$117,759	\$16,706.28	\$127.84	\$16,834.12	\$1,837,466

V—COMPARATIVE STATEMENT OF IMPORTS AND EXPORTS.

YEAR.	Imports.	Duties.	Tonnage duty.	Total duties.	Value of domestic exports.
1888.....	\$86,901	\$2,900.00	\$23.40	\$2,923.40	\$1,207,858
1889.....	21,852	2,931.00	49.80	2,980.80	1,405,447
1890.....	48,027	5,255.86	13.20	5,269.06	1,521,751
1891.....	155,446	4,764.97	86.40	4,851.37	2,079,173
1892.....	117,759	16,706.28	127.84	16,834.12	1,837,936

VI—COMMODITIES IMPORTED AND WAREHOUSED.

YEAR.	Value.	Duties.
1889	\$170 00	\$60.22
1890	806.00	759.00
1891	451.00	929.85
1892	1,001.00	2,678.80

VII—IMPORTED AND TRANSPORTED IN BOND.

YEAR.	Value.	Duties.
1889	\$52.00	\$23.40
1890	70,823.25	19,247.35
1891	54,156.00	10,126.81
1892	5,469.00	3,092.05

VIII—FOREIGN TRANSIT TRADE.

1892. MONTH.	Westward. Value.	Eastward. Value.
April		\$52,457.00
May	\$40,639.00	16,995.00
June	41,905.00	52,963.00
July	34,542.00	100,053.00
August	137,945.00	53,253.00
September	117,282.00	35,362.50
October	130,292.00	137,963.00
November	96,012.00	266,357.00
Total	\$509,617.00	\$792,403.50

VIII½—COMPARATIVE STATEMENT.

YEAR.	Westward. Value.	Eastward. Value.
1887	\$32,415.00	
1888	245,094.00	
1889	705,495.00	\$87,632.00
1890	820,164.66	381,850.00
1891	714,199.00	626,827.82
1892	599,607.00	792,403.50

IX—EXPENSE OF COLLECTING THE REVENUE FROM CUSTOMS.

YEAR.	Receipts.	Expenses.	Cost of col'ct'g \$1.
1887	\$6,582.00	\$5,599.00	\$88
1888	4,557.00	4,821.00	1.05
1889	5,085.00	5,469.00	1.07
1890	5,752.97	5,717.46	.99
1891	4,850.74	5,491.74	1.15
1892	16,834.12	6,820.55	.40

X—WRECK REPORTS.

YEAR.	Vessels damaged by fire.	Vessels otherwise damaged.	Total loss and damage.
1887	\$7,000	\$5,000	\$12,000
1888	2,700	4,000	6,700
1889	23,520	19,000	42,520
1890	20,000	970	20,970
1891	62,000	9,500	71,500
1892	8,000	12,500	20,500

XI—TONNAGE ADMEASUREMENTS, 1892.

Number of vessels built.....	7
Gross tonnage	295.81
Net tonnage	201.96

XII—OPENING AND CLOSING DULUTH HARBOR FOR THIRTEEN YEARS.

YEAR.	Opened	Closed.	Remarks.
1880	May 1	Dec. 17	
1881	May 8	Dec. 16	
1882	May 15	Dec. 30	
1883	May 9	Dec. 29	
1884	May 1	Jan. 1	1885
1885	April 27	Jan. 10	1886
1886	May 7	Dec. 30	
1887	May 4	Dec. 19	
1888	April 21	Jan. 17	1889
1889	April 11	Jan. 12	1890
1890	April 2	Feb. 2	1891
1891	April 30	Feb. 18	1892
1892	April 20	Dec. 30	

XIII—RECEIPTS BY LAKE.

1892. MONTH.	Coal, tons.	Salt, barrels.	O'm'nt barrels	Lime and bldg stone, tons.	Manu- fac'd iron, tons.	Fish, tons.	Staves.	Miscel- laneous mdse, tons.	Total all kinds in tons.
January								2	2
April	49,110	8,000	3,000			2		3,226	54,188
May	145,912	31,778	6,650	3,390	350	30	555,000	32,308	188,486
June	125,231	24,787	8,835	3,032	10	73	916,620	33,389	167,134
July	147,146	9,035	1,968	4,086	2,051	69	112,000	33,419	197,831
August	87,536	12,243	14,085	3,106	794	45	750,500	33,182	129,225
September	128,252	13,566	5,270	1,965	2,355	41	792,700	34,222	156,443
October	106,197	10,368	16,278	1,150	2,242	42	769,500	82,755	147,636
November	92,882	27,674	4,500	900	4,780	2	1,654,320	22,074	124,296
December	3,500					4		1,060	4,564
Total	885,266	187,435	60,536	18,529	12,582	306	5,559,320	225,637	1,169,807

XIV.—SHIPMENTS BY LAKE.

*1892. MONTH.	Wheat. Bushels.	Corn, oats, barley and rye. Bushels.	Flax seed. Bu.	Flour. Bbls.	Mill stuff. Tons.	L'mb'r M feet.	Iron ore. Tons.	Misel. mdse. in tons	Total all kinds in tons.
April	2,383,907	.....	192,000	71,345	.....	.....	13,890	80	94,034
May	3,443,061	10,445	64,000	314,875	1,468	475	81,891	2,117	234,852
June	898,017	39,400	76,100	358,707	2,468	820	141,658	3,716	215,561
July	1,546,954	8,000	.....	336,165	1,635	1,360	193,309	16,436	238,100
August	940,963	6,000	80,000	353,383	2,178	5,310	206,631	3,005	292,645
September ..	1,307,129	41,329	65,000	291,368	3,170	3,613	146,844	6,420	243,966
October	2,262,601	68,151	.....	303,954	2,536	5,090	138,636	4,071	255,308
November ..	1,829,060	54,075	.....	318,558	1,966	2,125	62,723	2,589	164,309
December .....	.....	834	.....	.....	10	.....	.....	60	84
Total	15,111,682	228,834	477,100	2,316,355	15,429	19,393	964,584	32,444	1,731,430

The above tables constitute the official statistics of Duluth as far as lake carriage is concerned, and should be substantially correct. This is far from being the case, however. As explained in my last annual report, the laws of navigation now in force allow so wide a liberty of construction in the matter of reports and clearances of vessels that for so-called intermediate ports no correct commercial statistics, from official sources, are possible. This state of things is well understood at Superior, whose statisticians from the fact that generally, vessels have to pass first through the Duluth canal before they can enter that place, claim that Duluth is an intermediate port, where vessels with or without cargo destined for Superior across the way need not report for customs purposes at all. The fallacy of this stand is obvious when it is explained that Superior is not west of Duluth, nor is it further inland, for the same north and south line runs, through the center of both places, and it is a well known fact that the lumber output of our mills when bound for eastern markets are laden in vessels on St. Louis Bay, within the city limits of Duluth, and west of the city limits of Superior. According to this rule of course Superior is the intermediate port, for the limits of Duluth extend farther inland from the entrance to our harbor than Superior does. I have explained this matter to the department in more than one instance, and requested some special ruling which should decide the matter equitably for both places. In the absence of such ruling vessel masters virtually do as they please about reports and clearances, and very many that should report at Duluth are persuaded not to because it is a step further to the Superior docks from the canal entrance than it is to some of the docks on the Duluth side of the bay.

Trivial as the lines are, thus drawn, they are nevertheless used under the shadow of the laws of navigation now in force to produce a discrimination against Duluth, which, when properly examined into, takes on enormous proportions.

Last year this discrimination against us amounted to about 18 per cent; this year it is more, or about 20 per cent; that is, 20 per cent more transactions should have been reported at Duluth that were actually reported at Superior. Now, taking this 20 per cent away from us and giving it to a rival doubles the discrimination of course, so that it is the prestige of 40 per cent instead of 20 per cent that we lose by this means.

This matter was explained more in detail in my last annual report. The way the true amount of this discrimination is arrived at is to compare the official tables XIII and XIV of receipts and shipments, taken from the books of the custom house, with table XV from unofficial sources, which follows:

XV.—RECEIPTS AND SHIPMENTS BY LAKE.—Exclusive of timber afloat—in tons—from unofficial sources.

COMMODITIES	Receipts.	Shipm'ts.	All kinds in tons.
Wheat, bushels.....	20,113,662		609,505
Corn, bushels.....	10,031		251
Oats, bushels.....	205,397		3,433
Barley, bushels.....	198,217		4,965
Rye, bushels.....	27,345		684
Flax seed, bushels.....	444,174		12,691
Flour, barrels and sacks.....	2,884,825		28,483
Mill stuff, tons.....	1,012		1,012
Coal, tons.....	1,168,068		1,168,068
Iron ore, tons.....		1,344,885	1,304,885
Copper, tons.....	50	5,890	5,930
Manufactured iron.....	16,773		16,773
Salt, barrels.....	26,194		3,929
Cement, barrels.....	12,025		2,405
Building stone, tons.....	54,619		54,649
Lime, tons.....	16,087		16,087
Cedar, cords.....	17,000		25,500
Lumber, feet.....		27,076,000	27,076
Shingles.....		57,000	14
Staves.....	1,986,640		993
Fish, pounds.....	1,600,000		800
Sand and gravel tons.....	102,640		102,640
Miscellaneous merchandise, tons.....	110,480	23,465	133,945
Total tons.....			3,784,898

Timber afloat 77,000,000 feet.

By this means it will be seen that the difference between the iron ore reported shipped and actually shipped from Two Harbors is 320,301 tons, or nearly 30 per cent of the total shipments from that sub-port, and that the difference on the wheat reported and actually shipped is almost as great, or 25 per cent. In fact, without itemizing particularly the difference in all commodities, I will merely state that the difference between the official report of the tons moved and the unofficial is 883,452 tons, or about 33 per cent of the whole amount. This enormous disproportion does not exist, however, but it does amount to about 20 per cent. In order to explain this it is necessary to state that the Superior statisticians have been so busy appropriating Duluth transactions to themselves that they have overlooked some two or three hundred thousands tons of stuff that legitimately belongs to them, and with which they are credited in the following tables:

XVI.—STATISTICS OF DULUTH CANAL, 1892.

OFFICIAL.					Same from unofficial sources.
CITY.	Arriv'ls and clearances	Tonnage.	Average tonnage.	Tons moved.	Tons moved.
Duluth.....	3,482	3,810,652	1,095	2,901,246	3,784,698
Superior.....	1,940	2,496,507	1,286	1,764,007	1,764,007
Total.....	5,422	6,307,159	1,163	4,665,253	5,548,705

XVII.—The same showing adjustment of 20 per cent discrepancy between Duluth and Superior.

					Same from unofficial sources.
CITY.	Arriv'ls and clearances.	Tonnage.	Average tonnage.	Tons moved.	Tons moved.
Duluth.....	4,178	4,572,682	1,125	3,481,495	3,784,698
Superior.....	1,244	1,734,477	1,266	1,183,758	1,764,007
Total.....	5,422	7,307,159	1,163	4,665,253	5,548,705

C. F. JOHNSON,
Collector of Customs

STATEMENT IX.

REPORT FROM UNITED STATES INTERNAL REVENUE DEPARTMENT.

INTERNAL REVENUE SERVICE, DISTRICT OF MINNESOTA,
COLLECTOR'S OFFICE, ST. PAUL, MINN., January 7, 1893. }

Hon. H. Stockenström, Commissioner of Statistics, St. Paul.

DEAR SIR:—I enclose herewith a detailed statement of collections from internal revenue for the district of Minnesota, for the period ended Dec. 31, 1892, as per your request of Jan. 5th.

Respectfully yours,

MARCUS JOHNSON, Collector.

1892.	Liquor.	Beer.	Spirits.	Cigars.	Snuff.	Tobacco.	Specials.	Totals.
January.....	\$225.00	\$17,751.45	\$154,555.20	\$9,828.15	\$170.70	\$828.11	\$1,114.84	\$184,471.45
February.....	30.54	24,302.41	135,628.20	10,103.78	232.80	1,064.20	734.26	172,086.19
March.....	304.86	23,647.29	137,668.50	11,550.29	183.00	1,226.48	1,097.67	178,778.08
April.....	70.96	27,985.19	125,221.50	11,625.84	167.10	1,377.15	1,077.09	167,524.83
May.....	103.34	28,722.35	123,775.20	11,625.93	208.02	1,535.63	739.74	166,820.21
June.....	271.56	41,495.15	117,004.60	13,599.63	216.00	1,627.41	53,902.60	228,116.95
July.....	215.37	43,538.31	136,714.20	12,732.31	235.38	1,573.26	45,965.00	241,283.83
August.....	467.01	41,339.41	164,257.20	12,843.51	299.16	1,943.85	4,245.92	225,386.06
September.....	98.69	32,322.04	324,728.10	12,444.87	190.50	1,467.73	2,242.66	373,694.59
October.....	53.26	33,704.46	175,399.80	12,873.74	298.50	1,182.18	1,666.25	226,017.69
November.....	79.23	27,766.30	173,987.10	12,961.21	242.26	1,568.41	1,602.41	216,386.92
December.....	279.75	28,223.49	210,341.30	12,897.28	195.18	738.21	2,149.51	255,234.62
Totals.....	\$2,199.56	\$373,797.85	\$1,979,090.30	\$144,936.54	\$2,538.60	\$15,910.62	\$116,557.95	\$2,634,781.42

STATEMENT X.

MARRIAGES, DIVORCES AND NATURALIZATIONS IN 1892.

COUNTIES.	Marriages.	Divorces.	NATURALIZATIONS.						
			Scandi- navians.	Germans Poles, Ro- manians and Rus- sians.	Irish.	English & Scotch.	Other national- ities.	Total nat- uraliza- tions.	
Aitkin.....	24	1	50	3	1	19	1	83	
Anoka.....	68	4	42	5	1	9	9	66	
Becker.....	84	5	73	29		18	2	123	
Benton.....	48	4	6	35		8		49	
Big Stone.....	93		54	7	1	7	3	72	
Blue Earth.....	254	9	44	115		19	2	180	
Brown.....	164	5	41	80	1	7	5	134	
Carlton.....	48		162	2	5	4	2	175	
Carver.....	154	1	47	71			5	123	
Chippewa.....	79	2	50	28	10			88	
Chisago.....	55	2	33					38	
Clay.....	124	5	142	14	1	17	1	175	
Cook.....									
Cottonwood.....	58	4	56	33		2	2	93	
Crow Wing.....	109	11	78	18	5	32	7	128	
Dakota.....	111	8	48	46	5	9	6	114	
Dodge.....	82	7	57	10		5		72	
Douglas.....	128	4	82	37		1		120	
Faribault.....	172		45	41		9	10	105	
Fillmore.....	201	13	40	40	3	3		86	
Freeborn.....	166	10	164	13	1	2	10	190	
Goodhue.....	175	2	180	53		9	10	252	
Grant.....	66		97			4	1	102	
Hennepin.....	2,025	182	1,270	257	526		309	2,362	
Houston.....	69	2	75	19		1		95	
Hubbard.....	18	1	6	4		17	1	28	
Isanti.....	63	1	64	1				65	
Jackson.....	89	1	40	36	1	9	1	87	
Kanabec.....	11		48					48	
Kandiyohi.....	125		152	3		2	9	166	
Kittson.....	35	4	118	3		6	17	144	
Lac qui Parle.....	126	4	125	9			2	136	
Lake.....	12		101	1	2	1	17	122	
Le Sueur.....	187	4	22	84	1	1	11	119	
Lincoln.....	40		48	12				60	
Lyon.....	131	5	88	50	3	7	10	158	
McLeod.....	144	3	31	120		2	2	155	
Marshall.....	72		133	14		1	11	159	
Martin.....	101		16	27		4	2	49	
Meeker.....	112	2	190	14	2		13	219	
Mille Lacs.....	29	2	45	2	1		7	55	
Morrison.....	140	10	105	95	5	5	5	215	
Mower.....	166	13	91	70		11	4	176	
Murray.....	55	3	31	13	3	3	7	57	
Nicollet.....	99	2	91	37	3	3		134	
Nobles.....	71	2	42	25	1	10		78	
Norman.....	92		103	2		1		106	
Olmsted.....	183	7	49	55	12	17	3	136	
Otter Tail.....	299	8	14	19				313	
Pine.....	38		110	20	1	24	6	161	
Pipestone.....	77	1	20	10	1	20	4	55	
Polk.....	310	11	220	20	38	5	8	291	
Pope.....	84	4	102	12	3	6	12	135	
Ramsey.....	1,435	84	463	540	142	299	611	2,055	
Redwood.....	112	8	30	25	2	6	5	68	
Renville.....	120	2	41	18			23	80	
Rice.....	280	12	100	150	60	25	25	350	
Rock.....	69	4	64	6	1		1	72	
St. Louis.....	474	28	563	836	23	328	79	1,829	
Scott.....	84	1	17	52	9	2	7	87	
Sherburne.....	29	1	29	4		7	1	41	
Sibley.....	101	1	15	42	3	1	3	64	
Stearns.....	337	9	90	286	6	28	9	419	
Steele.....	109	7	55	63	5	8		131	
Stevens.....	53	1	62	14	3	4	8	91	
Swift.....	71		69	14	5	5	9	102	

STATEMENT X.—*Continued.*

COUNTIES.	Marriages.	Divorces.	NATURALIZATIONS.					
			Scandi- navians.	Germans, Poles, Ro- hemians and Rus- sians.	Irish.	English & Scotch.	Other national- ities.	Total nat- uraliza- tions.
Todd	288	10	25	120	5	10	.....	160
Traverse	40	.....	65	8	2	2	8	88
Wabasha	115	4	20	52	11	.....	4	87
Wadena	60	1	21	11	2	.....	53	90
Waseca	90	2	13	20	5	2	.....	40
Washington	194	12	118	48	16	45	34	261
Watonswan	73	1	78	15	2	.....	8	101
Wilkin	29	1	89	13	.....	7	.....	59
Winona	248	15	30	185	40	.....	.....	258
Wright	202	3	95	23	9	.....	18	153
Yellow Medicine	110	.....	115	13	.....	2	3	143
Supreme Court .....	.....	.....	443	130	15	44	62	694
Totals	12,157	576	7,806	4,400	993	1,177	1,509	15,885

TABLE

Showing Marriages, Divorces and Naturalizations in Minnesota for the last Eleven Years.

YEARS.	Marriages.	Divorces.	NATURALIZATIONS.					
			Scandina- vians.	Germans, Poles, Ro- hemians, Russians.	English & Scotch.	Irish.	Other na- tionalities	Total.
1882	8,256	354	8,628	2,292	1,041	646	764	13,371
1883	8,878	293	5,049	2,123	1,231	356	453	9,212
1884	9,047	480	9,166	4,790	1,784	703	1,026	17,471
1885	9,441	452	1,761	985	.....	815	256	3,722
1886	8,941	415	6,354	3,424	1,621	370	588	12,367
1887	9,413	430	1,552	748	212	157	396	3,067
1888	10,847	588	11,151	5,741	1,442	987	1,303	20,624
1889	10,181	499	1,517	804	254	84	284	2,943
1890	10,358	538	6,045	2,280	919	225	1,346	10,855
1891	11,067	606	1,351	534	197	155	320	2,567
Supreme court from the organization of the state up to 1892 .....	.....	.....	3,945	1,378	286	187	239	6,065
1892	12,157	576	7,806	4,400	1,177	993	1,509	15,885
Totals	108,586	5,231	64,325	29,479	10,669	5,140	8,516	118,129



VIEW OF THE STATE FAIR GROUNDS FROM THE MAIN ENTRANCE.

ANNUAL REPORT
OF
Minnesota State Agricultural Society,
FOR THE YEAR 1892.

**CONTAINING SECRETARY'S REPORT TO THE GOVERNOR, PROCEEDINGS
THE SOCIETY, FINANCIAL STATEMENTS, INCLUDING AUDITOR'S
AND TREASURER'S REPORTS, STATEMENT OF ENTRIES,
AWARDS, AND REPORTS FROM DISTRICT
AND COUNTY SOCIETIES; PAPERS ON
VARIOUS SUBJECTS, &C., &C.**

COMPILED BY
W. F. CROSS, SECRETARY,
HAMLIN, MINN.



MINNEAPOLIS:
HARRISON & SMITH, PRINTERS
1893.

Minnesota State Agricultural Society.

OFFICERS AND BOARD OF MANAGERS, 1892.

President, - - -	J. H. BURWELL, - - -	St. Paul
First Vice President, - - -	J. H. STEVENS, - - -	Minneapolis
Second Vice President, -	ED. WEAVER, - - -	Mankato
Secretary and General Manager, W. F. CROSS, - - -		Hamline
Ass't Secretary and Librarian, SAM PARTRIDGE, - - -		Hamline
Treasurer, - - -	FRANK J. WILCOX, - - -	Northfield

BOARD OF MANAGERS.

W. M. LIGGETT, Benson, - - - - -	Term expires 1895
J. H. LETSON, Alexandria, - - - - -	Term expires 1895
C. N. COSGROVE, Le Sueur, - - - - -	Term expires 1894
CLARKE CHAMBERS, Owatonna, - - - - -	Term expires 1894
W. R. TANNER, Moorhead, - - - - -	Term expires 1893
J. J. FURLONG, Austin, - - - - -	Term expires 1893

SUPERINTENDENTS OF DIVISIONS.

Horses.—Clarke Chambers, Owatonna.

Cattle.—W. M. Liggett, Benson.

Sheep and Swine.—J. H. Letson, Alexandria.

Poultry.—J. J. Furlong, Austin; Manager, Leslie Parlin, St. Paul.

Dairy Products.—J. A. Lawrence, St. Paul.

Honey and Apiary.—J. P. West, Hastings.

Main Building.—J. H. Burwell, St. Paul.

Horticulture and Floriculture.—J. M. Underwood, Lake City.

Vegetables, Grain and Farm Products.—J. H. Stevens, Minneapolis.

Machinery, Farming Implements and Carriages.—Ed. Weaver, Mankato.

Gates.—C. N. Cosgrove, Le Sueur.

Forage.—W. R. Tanner, Moorhead.

Farmers' Institute.—O. C. Gregg, Minneapolis.

STANDING COMMITTEES.

Executive.—President, Clarke Chambers, W. M. Liggett.

Reception.—President, First Vice President, Second Vice President, J. J. Furlong, W. R. Tanner.

Auditing.—W. M. Liggett, Clarke Chambers.

Transportation.—Ed. Weaver, C. N. Cosgrove, J. H. Stevens.

Gates.—C. N. Cosgrove, J. J. Furlong, W. R. Tanner.

Awards and Diplomas.—J. H. Stevens, J. H. Letson, W. R. Tanner.

Racing, Track and Grand Stand Attractions.—Clarke Chambers, C. N. Cosgrove, Ed. Weaver.

Music.—J. J. Furlong, W. M. Liggett, Ed. Weaver.

Advertising and Printing.—Wm. M. Liggett, J. H. Letson, J. H. Stevens.

Grounds and Water Supply.—W. R. Tanner, J. J. Furlong, J. H. Letson.

Buildings, Avenues and Trees.—J. H. Letson, Clarke Chambers, J. H. Stevens.

The President and Secretary are *ex officio* members of all committees.

Minnesota State Agricultural Society.

SECRETARY'S REPORT.

SECRETARY'S OFFICE, STATE FAIR GROUNDS, }
HAMLINE, MINN., DEC. 10, 1892. }

To His Excellency Wm. R. Merriam, Governor:

In compliance with the laws governing this society, I herewith submit a financial statement for the year ending December 10, 1892.

The past year has been an eventful one for the State Agricultural Society. In May the board of managers decided that as the society was free from debt, with money in the treasury, its interests would be best subserved by investing liberally in substantial improvements upon the grounds. The secretary was therefore directed to expend a reasonable amount of money in painting the buildings, grading avenues, boulevards and walks, and in setting out trees, shrubs, etc.

The work that has been done demonstrates the wisdom and good judgment manifested by the management in this direction, for what last May was a bare field, with a group of buildings upon it, is now a park laid out with taste, with a young growth of trees that in a very few years will be a forest of beautiful elms, maples and evergreens, which will greatly enhance the beauty and value of a place intended by the Creator of the universe for the home of the Minnesota State Agricultural Society.

The magnificent grand stand, erected by the Twin City Jockey Club, exemplifies the wisdom displayed by the management of 1891 in granting to them a lease for a term of years, of the track and stables for a portion of each year, in consideration of their building, at their own expense, a structure to cost not less than thirty thousand dollars. The club have already invested over sixty thousand dollars, and intend further to erect stables that will accommodate two hundred horses. All of these improvements belong to this society and cost it nothing.

Our state fair is growing in favor, and gaining in popularity every year. The accessibility and convenience of the grounds, comfortable quarters for animals, and the liberality of the management, are all spoken of by both exhibitors and visitors, in the highest praise.

The weather during the fair was unfavorable, and prevented many people from attending, and cut down our gate receipts considerably. Notwithstanding this, the society more than paid expenses, as our report shows. While we have but a small balance in the treasury, we have reason to believe that our funds have been well expended in the improvements made upon the grounds, and that the investment will prove not only a source of enjoyment to our patrons, but will also increase the interest in our fairs, thereby enlarging our receipts and profits.

All of which is respectfully submitted,

WM. F. CROSS,
Secretary.

ANNUAL MEETING
OF THE
Minnesota State Agricultural Society.

Pursuant to law and the regularly published call, the State Agricultural Society convened in the senate chamber at the capitol in St. Paul, on Tuesday, January 12th, 1892, at 10 o'clock a. m.

The meeting was called to order by the president, D. M. Clough and the call read by the secretary, W. F. Cross.

The minutes of the last annual meeting was read and on motion of Col. J. H. Stevens, approved.

Jared Benson moved that a committee on credentials be appointed by the chair; carried.

The president appointed as such committee, Jared Benson, Anoka; H. W. Stone, Morris; L. H. Prosser, Wykoff; Joel Heatwole, Northfield; and J. H. Baker, Garden City.

The secretary's report was read by W. F. Cross, and accepted and referred to a committee.

To the President and Members of the State Agricultural Society:

GENTLEMEN: Before giving you a financial statement for the year ending December 10th, 1891, as required by law, I beg leave to give you, in brief, a history of the operations of the board of managers and officers of the society during the past year.

At the annual meeting held January 13, 1891, Mr. F. B. Clark, of St. Paul was elected president, Mr. D. M. Clough, first vice-president, and Mr. Lysander Cook, second vice-president. Mr. Clark declining to serve, April 21, Mr. D. M. Clough was elected by the board of managers as president, and Mr. Lane K. Stone of St. Paul, as first vice-president. By reason of the death of J. J. Alexander, Mr. J. J. Furlong, of Austin, was elected to fill the vacancy. The board as organized elected Mr. W. F. Cross, of Red Wing, secretary; Sam Partridge, of Moorhead, assistant secretary; and Frank J. Wilcox, of Northfield, as treasurer, for the balance of the year.

June 23, Mr. John Cooper, tendered his resignation as member of the board of managers, and Mr. W. R. Tanner, of Moorhead, was elected in his place.

The present board of managers was organized very late in the season, but owing to the very efficient work of the preceding administration, and the very liberal appropriation made by the last legislature, which enabled

the society to commence the work of preparation for the next fair out of debt, the managers and officers were inspired with the feeling of confidence, and with close attention to the details of the work, and with a determination to save in expenses every dollar possible, they are now enabled to make a better showing, financially, than has ever been made during the history of the society. This will be apparent to you all, by a comparison of the receipts and expenditures of the past year with the years commencing with 1885, the date of the first fair held on the present grounds of this society.

The balance now on hand, as shown in our statement, is not so much on account of a large attendance at the fair, or large receipts from other sources, as it is due to the fact that expenses in every department have been kept down to the minimum, and I want to emphasize the point that this is the way that fairs can be made to pay expenses.

The premiums paid this year were more in the aggregate than any previous year, with the exceptions of 1888 and 1890. In this direction it is good policy to be liberal, for good premiums offered insures a good exhibit, and with three days of good weather the fair will be a financial success.

Of the surplus left in the treasury, \$6,000 has been placed with the First National Bank of Northfield at 4 per cent. interest.

The first work planned this year was in the interest of the Farmers' Institute. This work was taken up later on by Superintendent, O. C. Gregg, and his assistants, and was made a very interesting feature of the fair, and should be carried forward by the incoming administration.

A contract has been made with the Twin City Jockey Club, the terms of which will give to this society improvements of a valuable nature amounting to from thirty to forty thousand dollars, without any cost to the society.

Early in the spring, some improvements should be made upon the grounds, buildings should be repaired and repainted, streets and walks should be graded, trees and shrubs set out, etc., etc.

The treasurer's report was read.

Mr. J. P. West, deputy state bank examiner, claimed that the treasurer's report was not sufficiently itemized, and that a statement should have been presented showing all the sources from which funds had been received.

President stated in answer to Mr. West that it had not been customary in the past to present such a report. The book could be examined by any member.

Mr. West moved that a recess be taken until 1:30 p. m. Carried.

At 1:30 reassembled according to adjournment.

The committee on credentials made the following report, giving the names of delegates entitled to vote:

Anoka county, Dr. D. C. Dunham, John Hunter and Thos. Coleman, 3; Becker, G. W. Taylor, 3; Blue Earth, Wm. Thomas, 1; Carver, Frank Warner, Otto Weisenburg and C. H. Clorn, 3; Central Minn., John Cooper, 3; Clay, W. R. Tanner, 2; Dakota, Peter Martin, Dr. J. R. Conway and A. C. Bruce, 3; Dodge, G. B. Arnold, Henry Currier and W. A. Sparrow, 3; Douglas, Jas. H. Letson, 3; Fillmore, L. H. Prosser, 3; Goodhue, Wm. Doxey, S. B. Barteau and T. N. Lee, 3; Kandiyohi, C. M. Reese, ; Lac qui Parle, H. L. Hayden, 3; Le Sueur, A. B. Moffatt, R. VanLehl and J. P. Funk, 3; McLeod, C. N. Perkins, 3; Mower, H. W. Lightly, E. B.

Williams and A. Kimball, 3; Pope, Peterson, C. L. Peterson and M. G. Rigg, 3; Kenville, H. V. Poore, 3; Southern Minnesota, A. T. Stebbins, 1; Rock, F. N. VanDuzee, 1; Stevens, H. W. Stone, 3; Rice, J. P. Heatwole, Josh Roach and J. L. DeLancey, 3; Steele, N. J. Schafer, Clarke Chambers and J. A. Harris, 3; Swift, R. R. Johnson, A. D. Aldrich and H. W. Stone, 3; Tracey district, H. F. Seiter, 3; Waseca, J. T. Dunn, S. Leslie and M. Sheran, 3; Winnebago City, A. L. Fox, 1; Wright, Johnstone Mealey and W. H. Hoar, 3; State Dairyman, C. N. Perkins, 1; State Bee-keepers, J. P. West, 1; State Forestry, Col. J. H. Stevens, 1; Farmers' Alliance, Dr. E. W. Fish and H. L. Wilcox, 2; Life Members, J. W. Roxall, W. L. McGrath, W. L. Ames, L. Hoyt, J. H. Baker, J. G. Bass, W. Brimhall, A. Bohland, Jared Benson, Clarke Chambers, John Cooper, N. P. Clarke, C. N. Cosgrove, W. F. Cross, S. M. Emery, G. R. Finch, F. G. Gould, Dan Getty, J. A. Harris, Frank D. Holmes, R. C. Judson, John Kerwin, L. Prosser, D. Ramaley, Col. J. H. Stevens, T. Slater, H. W. Stone, Sr., G. W. Sherwood and M. C. Tuttle.

Frank Warner of Carver county, moved the following resolution which was seconded and adopted:

"That, a committee of three be appointed to investigate as to the receipts of the secretary of the State Agricultural Society by reason of all entries made by him of moneys received by him for races, of exhibits at fair, and for all other purposes, and to ascertain if the secretary has paid over to the treasurer of said society all the moneys so received. That said committee consist of three persons, to wit: J. P. West, chairman, Geo. B. Arnold and J. H. Stevens."

The secretary's report, including the financial report, as accepted was referred to the above committee and they were to report to the board of managers.

Before proceeding to the election of officers, President Clough made a few remarks, thanking the officers of the association for their support during his term of office, and made a few suggestions for the future management of the fair. He said:

"It is not necessary to have six days of good weather to make the Fair a financial success. Four days with a good management will always pay our bills. It has been customary for the managers to draw each year a salary of \$250 and expenses, and these sums amount to nearly \$3,000. The other salaries foot up to about the same amount, and you are not certain of success as long as you pay nearly \$6,000 for salaries. The secretary and his assistant should be paid well, for most of the work falls upon their shoulders. The managers should have only their traveling and hotel bills paid. I would further recommend that the secretary be elected superintendent of grounds, as he can attend to that work much better than another man. If you will elect a good business man as president, and re-elect Secretary W. F. Cross, and Assistant Secretary Sam Partidge, and a board of directors that will work in harmony, there will be no such thing as a failure in the management of our State Fair."

A motion that a special committee of three be appointed to consider the president's suggestions, and report on the advisability of being governed by them, was carried.

General J. H. Baker offered the following resolution, which was seconded by Lane K. Stone, and unanimously adopted:

Resolved, "That the thanks of this society are hereby tendered to the retiring President, Hon. D. M. Clough, for the energy, the fidelity, and business methods which has characterized his administration, and he carries with him in his retirement, our best wishes for his personal prosperity and happiness."

H. W. Stone moved that an informal ballot be taken for president; carried.

The chair appointed as tellers L. K. Stone, John Cooper and D. M. Reese.

The result of this informal ballot was—votes 97. J. H. Burwell, 58; J. H. Baker, 14; S. M. Owens, 14; W. M. Liggett, 4; Clarke Chambers, 3; Scattering 4.

A motion was made to make Mr. Burwell's election unanimous; carried.

On motion of N. P. Clarke, the secretary was instructed to cast the ballot in favor of Mr. Burwell; carried, and the secretary cast the ballot.

N. P. Clarke moved the nomination of S. M. Owen of Minneapolis for first vice president.

John Cooper moved to make the election unanimous, and the secretary was instructed to cast the ballot for Mr. Owen. So done.

E. S. Moffatt of Le Sueur, nominated Mr. Ed Weaver of Mankato and Col. J. H. Stevens, nominated John H. Hunter of Anoka, for second vice-president.

Ballot ordered for formal ballot, resulting in the election of Mr. Weaver. Ninety-nine votes cast; Ed Weaver receiving 60 and John Hunter 39. Mr. Weaver's election was on motion made unanimous.

J. P. Heatwole nominated and N. P. Clarke seconded W. M. Liggett to succeed himself as manager. On motion of C. N. Perkins, the secretary was instructed to cast the ballot for Col. Liggett as manager. So done.

A. T. Stebbins nominated for the second vacancy in the board of managers, James H. Letson, of Alexandria; seconded by N. P. Clarke. And Peter Martin nominated John Byers of Hastings. Johnson Mealey of Howard Lake, was also put in nomination. An informal ballot ordered; result 98 votes. James H. Letson, 63; John Byers, 25; Johnson Mealey, 5; Scattering 5.

The informal ballot was made formal and Mr. Letson was declared unanimously elected.

A. Kimball moved and J. H. Harris seconded the following resolution:

Resolved, "That in regard to the question of vacancies filled by the board of managers during the past year, and their powers and limitations in the matter, it be referred to the attorney general of the State for his written opinion on the same. That in case of a question being raised by this decision, the president and secretary of this society be authorized and requested to secure such further and additional legislation as may be necessary to carry the attorney general's opinion into effect."

General J. H. Baker moved and Dr. E. W. Fish seconded the following resolution.

Resolved, "That the State Agricultural Society instruct the board of managers to have no liquor selling or gambling devices permitted upon the State Fair Grounds, especially as it is in direct violation of the law, and against the sentiment of the people." Carried.

The claim of G. D. Knox was brought up by the secretary reading the the following letter received from Burdick Post:

"BURDICK POST NO. 3, DEPT. MINN.

G. A. R. SPRING VALLEY, NOV. 16, 1891.

To the Honorable Board of Managers of the State Agricultural Society:
Gentlemen: In your reply to this post dated June 27, 1891, you say "your communication relative to paying Geo. D. Knox the sum of \$750 was presented to the board of managers of the State Agricultural Society by Ex-Manager James Compton, and duly considered.

"The board directs me to say to you that a lack of funds in the treasury of this society prevents their favorable consideration of the matter at this time. The appropriation made by the last legislature for the liquidation of the debts of this society has been exhausted, leaving the treasury as bare as before."

Gentlemen, we have waited patiently in this matter, until you now have the money to pay this debt. A committee appointed by a board of your society reported "that the State Agricultural Society pay the further sum of \$750 and the department commander of Minnesota G. A. R. raise a like sum to be placed in the hands of a committee of three." (C. G. Edwards, R. L. Moore and W. W. Butecow.)

The G. A. R. has complied with the report of your committee and it is now hoped that you will at once do the same, as the committee of which C. G. Edwards is chairman must make a final report to the department encampment G. A. R. at Minneapolis this winter, and would be sorry to report that your honorable society repudiated its committee and its debt of honor.

Burdick Post No. 3, therefore, respectfully asks that your society pay the sum of \$750 into the hands of the chairman of the committee (C. G. Edwards, of St. Paul) for the benefit of Geo. Knox and his family, and thus forever end the matter. Yours fraternally,

BURDICK POST, No. 3, G. A. R.

I. O. KILBURN, Post Commander.

GEO. W. WHITTING, Post Adjutant.

Secretary Cross suggested that as there was ample means in the treasury now to liquidate this claim, that action be taken at this time by the society so that this matter may be settled.

Remarks were made by J. J. Furlong, John Cooper, N. P. Clarke and others. The opinion prevailed that the matter be settled.

On motion of N. P. Clarke and seconded by J. J. Furlong the following resolution was adopted:

Resolved, That the Minnesota State Agricultural Society pay out of any funds in the treasury not otherwise appropriated, the sum of seven hundred and fifty dollars (\$750) to C. G. Edwards, R. L. Moore, W. W. Butecow, Burdick Post No. 3, G. A. R., to be expended for the benefit of Geo. D. Knox, and his family, and that this amount cover all claims due from the Minnesota State Agricultural Society on behalf of the said Geo. D. Knox and his family.

General J. H. Baker moved that the name of Hon. D. M. Clough be added to the list of life members. Carried.

C. N. Cosgrove moved that the name of Dr. J. H. Murphy be added to the list of life members. Carried.

Also on motion the following names were referred to committee on life members: C. D. O'Brien, G. H. Hazzard, Dr. Chas. F. Konantz and Henry Schneider. The remaining members of the board of county commissioners, which voted to present the fair grounds to this society.

On motion the meeting adjourned.

W. F. CROSS, Secretary.

REPORT OF AUDITING COMMITTEE.

To the Honorable Board of Managers of the Minnesota State Agricultural Society:

Your auditing committee beg leave to make the following report:—

We have examined all bills and claims presented against the society and have approved the same, as shown per the attached list, made in detail, of said bills allowed.

W. M. LIGGETT,
CLARKE CHAMBERS.

REPORT OF THE STATE BOARD OF AUDITORS, FOR THE YEAR ENDING
DECEMBER 10, 1892.

To the Honorable the Legislature of the State of Minnesota:

Pursuant to Section 4, Chapter 181, of the General Laws of one thousand eight hundred and eighty-seven, the undersigned board, created by virtue of said act, hereby respectfully submits the following report of the financial transactions of the MINNESOTA STATE AGRICULTURAL SOCIETY for the year ending December 10, 1892, together with such other facts as we deem pertinent and bearing on the business affairs of the society:

WM. R. MERRIAM,
MATT JENSEN,
HENRY FEIG,
THEODORE SANDERS.

REPORT OF THE STATE AGRICULTURAL SOCIETY FOR THE YEAR ENDING
DECEMBER 10, 1892.

Receipts.

1891.		
Cash on hand, Dec. 10, 1891.....		\$10,551.76
Ticket sales in 1891.....		333.00
Cheese sales in 1891.....		34.33
Swenson Bros., dining hall.....		100.00
James Carr, stall rent.....		13.00
E. M. Hallowell, rent.....		15.00
S. H. Harrison, returned.....		13.80
Total for 1891.....		\$11,060.89
1892.		
Nov. 7.	Annual dues.....	\$73.00
	M. G. Thompson, privilege.....	60.00
	Forage.....	1.50
May 4.	James Carr, stall rent.....	4.00
	F. A. Seymour, stall rent.....	12.00
June 9.	James Carr, stall rent.....	15.00
	Stamps sold.....	1.50
	Interest on loan.....	120.00
	J. J. Wood, pasture.....	2.00
	J. Cullen, stall and pasture.....	64.00
	R. W. Zachon.....	27.65
July 6.	W. J. Scott, privilege.....	270.00
	A. D. Brown, pasture.....	3.00
16.	W. J. Scott, privilege.....	310.00
18.	M. V. B. Phillips, pasture.....	1.50
	C. D. Ruggel, privilege.....	10.00
30.	O. L. Rheame, pasture.....	12.00
Aug. 4.	State appropriation.....	4,000.00
8.	R. Reeves, pasture.....	8.00
13.	W. A. Maxwell, pasture.....	6.00
	M. V. B. Phillips, pasture.....	11.20
Sept. 5.	C. E. Wood, privilege.....	5.00
	S. B. Green returned check.....	3.00
	Geo. Sherwood, races.....	2.90
	W. L. Chappel, cheese.....	35.00
	Stalls and tickets.....	898.67
	Races.....	316.00
	Tickets.....	17,218.35
	D. E. Bailey, privileges.....	2,206.86

Sept.	8.	Races.....	\$440.00
	5.	Breeders' races.....	1,500.00
		Privileges.....	70.50
		J. M. Walls, races.....	180.00
	9.	Tickets.....	2,651.40
	10.	J. M. Bayer, forage.....	585.68
	12.	Races.....	140.00
		Forage.....	150.00
		D. E. Bailey, privileges.....	450.00
		Tickets.....	2,833.25
		Forage.....	65.72
	21.	Minnesota Driving Club, rent.....	550.00
		David McKay, stalls.....	26.00
		David McKay, entrance.....	53.00
		Fletcher Bros., stalls.....	4.00
		Fletcher Bros., ticket.....	2.00
		F. C. Shipman, ticket.....	2.00
		Geo. S. Bicknell, ticket.....	4.00
		T. Irwin, forage.....	18.08
Oct.	2.	T. Irwin, stalls.....	10.00
		O. L. Rheames, pasture.....	12.00
		Robt. Deakin, hay.....	30.00
		Omaha R. R., tickets.....	718.50
		St. Paul Jobbers, tickets.....	579.50
		N. P. R. R., tickets.....	288.50
		Stall rent.....	30.00
		Entrance fees.....	53.00
		Tickets.....	8.00
		Balance tickets.....	847.45
		Balance stalls.....	261.46
		Balance entry fees.....	171.00
		St. Paul Jobbers, Nancy Hanks.....	500.00
		Check returned Mrs. Tankersley.....	8.00
		Suspensions.....	20.10
		Pasture.....	9.33
		Notes—officers' salaries.....	2,600.00
Total.....			\$52,918.98

Disbursements.

1891.

Dec.	12.	Wilcox Bros., premiums.....	\$22.50
		Leopard's transfer.....	25.00
		Printing. R. C. Judson, 1889.....	113.00
		Asst. Superintendent, D. E. Bailey, '91.....	100.00
		Assistant Dr. J. C. Curryer.....	265.00
		Assistant E. H. Harrison.....	13.80
		Permanent improvements, Rodger & Co.....	101.00
		Premiums, Jenny M. Wilson.....	10.00
	15.	Assistant A Post, '89.....	25.00
		Lawsuit, '91.....	177.70
	18.	Manager L. Cook.....	294.32
		Manager C. Chambers.....	253.82
		Manager C. N. Cosgrove.....	299.99
		Manager J. J. Furlong.....	248.05
		W. R. Tanner.....	264.05
		J. F. Norrish.....	265.00
Jan.	9.	W. Rodger & Co., repairs.....	49.55
		Lockwood & Allard, fuel.....	84.00
		Assistant W. L. Chappel <i>et al</i>	37.00
		Assistant H. B. Hudson.....	10.00
		D. W. Harper.....	185.00
		J. W. Lucca.....	6.00

Jan.	30.	Burdick Post Knox, 1887.....	\$750.00
		Manager W. M. Liggett, 1891.....	250.00
Feb.	9.	Harris & Jones.....	37.95
March	21.	Premium Beets.....	60.00
		Premium, T. S. Moberly.....	300.00
		Premium, H. F. Brown.....	100.00
		Premium, N. P. Clarke.....	50.00
Sept.	10.	Premium, F. C. Pillsbury Estate.....	100.00
Total for 1891.....			\$4,314.58

1892.

Jan.	1.	State Auditors, H. Feig.....	\$15.00
		State Auditors, T. Sanders.....	10.00
		State Auditors, M. Jenson.....	10.00
	9.	Weymott & Howard.....	2.94
	30.	Pay roll.....	70.00
March	21.	Brooks Bros.....	23.76
		Lockwood & Allard.....	83.65
		M. Shelstad, labor.....	70.00
		American Express Co.....	7.55
		W. W. Campbell, ice.....	25.00
May	20.	Telephone.....	16.00
	30.	Butter Lost.....	32.57
		American Trotting Association.....	50.00
		W. Lindig, hay.....	9.00
June	2.	Sam. Partridge.....	300.00
July	1.	M. Shelstad <i>et al</i>	374.00
		Telephone.....	10.00
	22.	Farwell, Ozmun & Co.....	50.57
		Red Wing Sewer Pipe Co.....	57.75
	30.	Pay roll, main building.....	282.78
	22.	Joslin, Cudworth & Co.....	90.00
		Lockwood, Allard & Co.....	64.21
		Northwestern Telephone Co.....	20.00
		Shorthorn Breeders Association.....	79.25
Aug.	1.	J. I. C. Attraction.....	800.00
		W. F. Cross.....	11.24
Sept.	10.	Assistant superintendent, L. H. Prosser.....	25.00
		A. Lowell, watchman.....	15.00
		W. C. Hanke, watchman.....	15.00
		Ed. Newman, watchman.....	15.00
		M. B. Johnson, watchman.....	21.00
		J. F. McGinnes, watchman.....	12.00
		M. H. Shay, assistant.....	15.00
		A. E. Miller, watchman.....	16.00
		G. A. Cobb, assistant superintendent.....	30.00
		Gatekeeper's pay roll.....	391.25
		Ed. Weaver, expense.....	11.99
		W. E. Prichard, judge.....	100.00
ept.	12.	L. Parlin, superintendent.....	50.00
		L. Parlin, forage.....	20.00
		F. L. Seixas, press agent.....	200.00
		Ticket seller's pay roll.....	290.00
		Nancy Hanks, attraction.....	2,500.00
		Mrs. Crossley <i>et al</i> , superintendents.....	759.00
		Wm. Brenner, watchman.....	22.50
		Jack and Martha Wilkes.....	750.00
Sept.	13.	Labor pay roll.....	590.69
		Labor pay roll.....	950.00
Sept.	14.	C. Gantzer, labor.....	80.00
		J. M. Walls, assistant.....	50.00
		City of St. Paul, labor.....	47.00
Sept.	19.	Chamberlain, expense.....	123.67

Sept.	19.	Labor, July and August.....	\$374.87
		J. McDonald, labor.....	91.12
Sept.	28.	S. Partridge, salary.....	300.00
Sept.	30.	G. Stevens, salary.....	130.00
		W. F. Cross, salary.....	1,800.00
		James Hannister.....	53.08
Sept.	11.	Harris & Jones, team.....	40.00
		St. Paul Cartage Co.....	60.00
		St. Aubin & Dion.....	31.00
		J. P. West, superintendent.....	9.72
		Scribner-Libbey Co.....	13.97
		St. Paul Show Case Co.....	7.50
Sept.	30.	Standard Oil Co.....	7.78
Oct.	10.	Security warehouse.....	7.40
		H. P. Rugg & Co.....	28.23
		Wm. Rodger.....	3.50
		J. A. Lawrence <i>et al.</i>	115.00
		Quinby & Abbott.....	7.00
		People's Ice Co.....	21.25
		N. W. Stamp Co.....	14.30
		N. W. Telephone.....	20.00
		Lynch & Schubert.....	3.00
		Lockwood & Allard.....	140.78
		A. W. Latham, superintendent.....	6.00
		A. W. Latham.....	12.25
		F. A. Leyde.....	70.82
		P. H. Kelly.....	12.50
		W. D. Harris.....	18.00
		Fort Snelling Band, attraction.....	420.00
		H. L. Foster.....	4.00
		Fairbanks, Morse & Co.....	2.50
		Adam Decker.....	15.90
		Cooper.....	9.00
		John A. Bayne.....	29.25
		Barbeau Transfer.....	60.00
		Allen, Moon & Co.....	30.00
		Twin City Lime Co.....	10.90
		F. J. Wilcox.....	29.10
		Robt. Deakin.....	30.00
		W. F. Cross, pay roll.....	404.75
		J. H. Burwell.....	37.15
		Mast, Buford & Burwell.....	150.91
		Mast, Buford & Burwell.....	3.80
		Wm. Roberts & Sons, ret.....	20.00
		D. W. Harper.....	1.00
		L. N. Scott.....	80.00
		Finch, Van Slyck & Co.....	157.21
		Crescent Creamery Co.....	117.00
		J. A. Lawrence.....	28.75
		J. A. Lawrence.....	78.75
		Joslin & Co.....	879.41
		Mary Partridge.....	18.00
		St. Paul Board Water Commissioners.....	35.00
		Hamline Supply Co.....	7.85
		Cornish, Curtis & Green.....	25.36
		D. E. Bailey.....	100.00
		Northwestern Telephone Co.....	10.00
Dec.	3.	J. B. Warren.....	10.00
		W. R. Morrison & Sanitation Co.....	5.40
		Meyers & Co.....	.75
		Northwestern Telephone Co.....	10.00
	9.	W. W. Campbell.....	16.50
		M. Shelstad <i>et al.</i>	141.25
		Geo. S. Bicknell.....	4.00

Dec.	6.	Wm. Liggett.	\$28.59
		J. H. Letson.	20.80
		W. R. Tanner.	41.20
		C. N. Cosgrove.	28.72
		Sam Partridge.	600.00
Dec.	13.	F. J. Wilcox.	400.00
		H. G. Neal.	40.00
		Dennis Murphy, assistant.	50.00
		Advertising.	4,176.94
		Postage.	380.97
		Premiums.	11,902.28
		Races.	4,697.35
		Permanent improvements.	8,149.84
Total.			\$45,839.62
Paid for 1891.			4,314.58
Salaries, in notes.			2,600.00
Balance in treasury.			164.78
Total.			\$52,918.98

RECAPITULATION.

FOR THE YEAR ENDING DEC. 10, 1892.

1891.	<i>Receipts.</i>	
Cash on hand December 10th.		\$10,551.76
Cash received from various sources.		509 13
Total for 1891 and former years.		\$11,060.89
1892.		
Balance on hand from 1891.		\$6,746.31
Annual membership.		73.00
State appropriation.		4,000.00
Forage.		819.48
Privileges.		3,382.35
Pasture account and stalls.		213.59
Stall rent during fair.		812.07
Entry fees.		277.00
Races, Breeders' stakes.		1,790.00
Races.		1,096.50
Suspensions.		27.65
Ticket sales.		25,548.95
St. Paul jobbers, Nancy Hanks.		500.00
Interest on loan.		120.00
Rent, driving club and superintendent.		550.00
Sundry receipts.		12.50
Cheese sold.		35.00
Notes paid, salaries.		2,600.00
Total.		\$48,604.40

1891.	<i>Disbursements.</i>	
Cash paid as per vouchers.		\$4,314.58
Balance on hand.		6,746.31
Total.		\$11,060.89
1892.		
Paid—Attractions.		\$4,470.00
Advertising.		4,176.94
Forage and fuel.		1,197.05
Labor, repairs, etc.		3,990.37
Officers.		6,000.00
Postage, express, etc.		368.52

Paid —Premiums.....	\$11,902.28
Races.....	4,697.35
Superintendent.....	1,708.60
Permanent improvements.....	8,149.84
Miscellaneous expenses.....	1,778.67
Cash in treasury.....	164.78
Total.....	\$48,604.40

SUMMARY.

Cash in treasury, December, 1892.....	\$164.78
Accounts due society.....	1,048.00
Permanent improvement funds, 1892.....	1,403.56
Personal property funds, 1892.....	316.41
Total.....	\$2,932.75
Bills payable.....	\$2,830.35
Balance in favor 1892.....	102.40
Total.....	\$2,932.75

SUMMARY OF TREASURER'S REPORT FOR 1892.

Receipts.

Balance on hand December 10, 1891.....	\$10,551.76
Annual membership fees.....	73.00
Annual state appropriation.....	4,000.00
Privileges.....	3,482.35
Forage.....	819.48
Pasture and stall rent.....	213.59
Stall rent.....	840.07
Entry fees.....	277.00
Races.....	1,076.40
Races, breeders.....	1,790.00
Races, suspensions.....	47.75
Ticket sales.....	25,881.95
St. Paul Jobbers' Union, Nancy Hanks.....	500.00
Interest.....	120.00
Rent, driving club.....	300.00
Premium returned.....	8.00
St. Paul Driving Club Supt.....	250.00
S. B. Green, returned.....	3.00
Cheese sold, 1891.....	34.35
Cheese sold, 1892.....	35.00
Stamps sold.....	1.50
Total.....	\$50,318.98
Disbursements.....	\$50,154.20
Balance.....	164.78
Total.....	\$50,318.98
	\$50,318.98

STATEMENT OF MONEY RECEIVED FOR PRIVILEGES DURING THE FAIR.

W. J. Scott, score card.....	\$580.00
W. J. Scott, mileage tickets.....	200.00
F. Hellroth.....	5.00
E. O. Nelson.....	5.00
C. F. Wood.....	15.00
F. Bowski.....	15.00
Sach & Bros.....	15.00
C. D. Ruggles.....	10.00

Nutting	850.00
Mrs. Lawley	15.00
E. L. Pritchett	10.00
Hubbell	20.00
W. H. Jones	15.00
Phil Rehfish	15.00
R. C. Eagles	5.00
Mansfield	10.00
G. W. Thompson	70.00
Jacobson	10.00
W. J. Dunneback, grand stand	500.00
Pat Couley, pools	750.00
Dining hall, Mr. Harris, or meal tickets, \$101.65	148.35
Epworth Church, lot for dining purposes	168.00
Methodist Alliance, lot for dining purposes	120.00
C. R. Chamberlain, lot for dining purposes	150.00
Ascension Church, lot for dining purposes	100.00
H. M. Barnett, ponies and fruit stand	35.00
New York Aquarium Car Co.	50.00
E. Janto, lemonade stand	10.00
M. Russe, fortune birds	5.00
George Peterman, six lots near sidewalk	120.00
P. Mainzer, two lots near sidewalk	50.00
H. C. Burrows, alligators	25.00
Lindberg & Stoneburg, merry-go-round	100.00
G. Gurenzing, lot	50.00
Truesdale, small notions	5.00
H. Austin, small notions	5.00
Green & Co., lot near sidewalk	28.00
Gumber & Co., lot near sidewalk	25.00
H. J. Lacorte, hitching horses	24.00
Vandely & Smith, lot near sidewalk	25.00
G. F. Evans, lot near sidewalk	25.00
Sloan & Co., sea cow	25.00
M. Keister, lemonade stand	10.00
G. Sannello, lemonade stand	10.00
S. H. Dickens & Co., lemonade stand	10.00
J. Mercier, cider	25.00
George Groff, lemonade stand	4.50
Snyder & Austin, riding gallery	50.00
Mrs. Kinning, lot near sidewalk	25.00
Biegle, Dalton & Co., Nancy Hanks pictures	20.00
J. F. Oakes, lot near sidewalk	25.00
J. Anderson, buttermilk	10.00

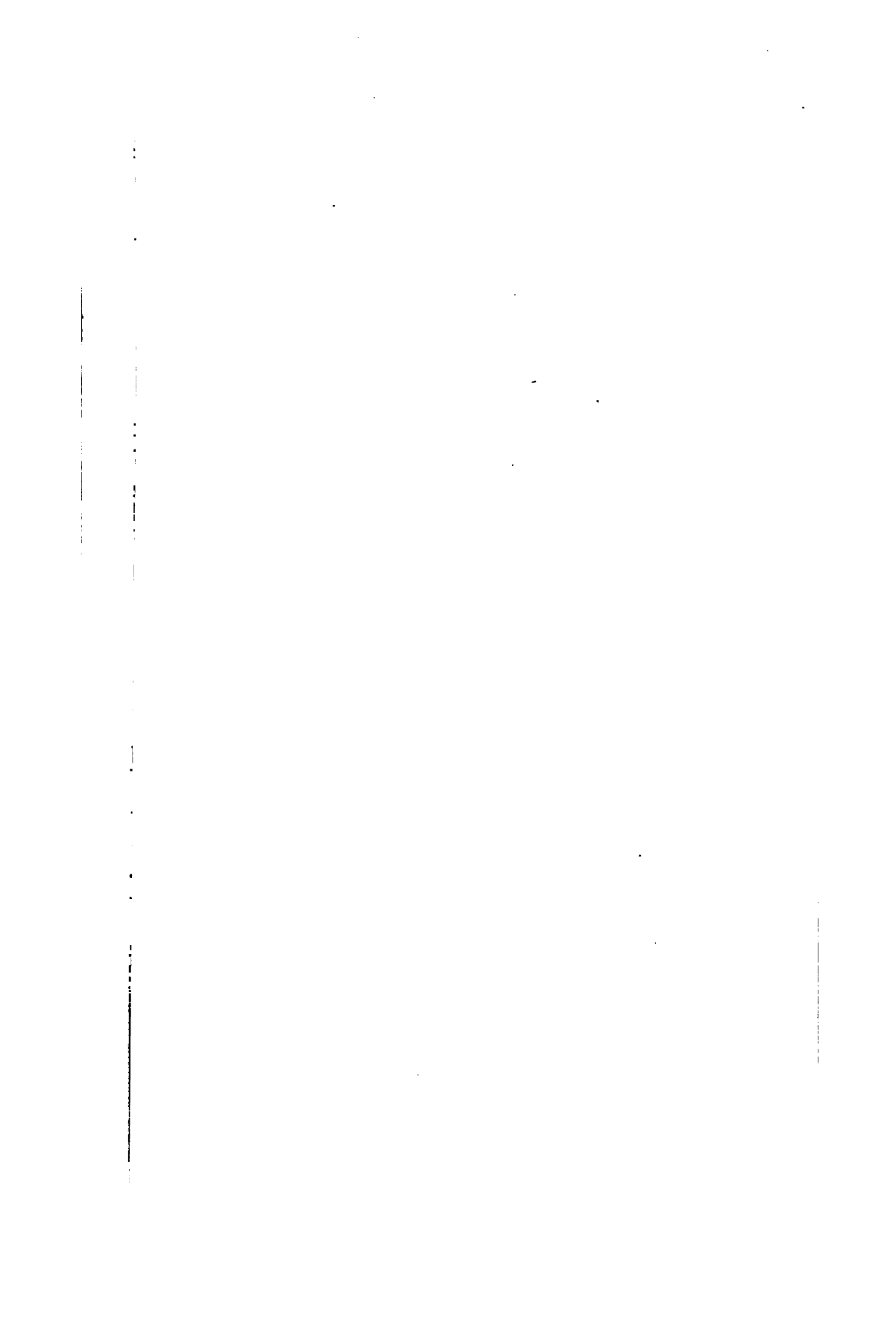
REPORT OF ADMISSION TICKETS RECEIVED.

To the Board of Managers Minnesota State Agricultural Society:

GENTLEMEN:—I beg to submit the following report of tickets taken up at the gates during the last Fair, from September 5th to 10th inclusive:

C. N. COSGROVE, Superintendent of Gates.

36,486	General admission tickets at 50 cents each	\$18,243.00
1,895	Half fare tickets at 25 cents each	473.75
818	Season coupon tickets at 33½ cents each	272.66
3,636	Railroad tickets at 50 cents each	1,818.00
17,565	Grand stand tickets at 25 cents each	4,391.25
701	Grand stand tickets, reserved, at 50 cents each	350.50
61,101	Total value	\$25,549.16



TICKETS RECEIVED EACH DAY.

DAYS.	General admission.	Half fare.	Season coupons.	Railroad.	Grand stand.	Grand stand, reserved.	Total.	Half fare tickets.	Half fare coupons.	One day passes.
Monday.....	689	102	80	65	.....	.....	945	104	98	.....
Tuesday.....	2,638	158	176	309	618	32	3,931	236	313	3
Wednesday.....	19,961	986	216	1,761	12,071	306	35,271	370	336	43
Thursday.....	8,753	424	173	944	3,577	331	14,202	221	354	35
Friday.....	4,455	245	164	557	1,299	23	6,752	318	236	25
Total.....	36,486	1,995	818	3,636	17,565	701	61,121	1,249	1,331	111

RECAPITULATION.

Received at outside gates	45,538
Received at grand stand	18,266
	63,804

RAILROAD COUPON TICKETS.

RECEIVED FROM VARIOUS RAILROADS.

DAYS.	Chi., St. Paul, Minneapolis & Omaha.	Great Northern.	Northern Pacific.	St. Paul & Duluth.	Soo.	D., S. S. & A.	Total.
Monday.....	41	9	9	6	.....	.....	65
Tuesday.....	126	85	30	46	17	5	309
Wednesday.....	690	435	529	190	113	4	1,781
Thursday.....	359	241	140	119	85	.....	944
Friday.....	223	156	69	85	24	.....	557
Total.....	1,439	926	577	446	239	9	3,636

Receipts.

Races and grand stand	\$7,828.25
Paid in purses and stakes	\$4,697.35
Paid for Nancy Hanks	2,500.00
Paid for Jack and Martha Wilkes	750.00
Paid for J. I. O.	800.00
Total cost	\$8,747.35
Less entries and grand stand	7,828.25
Net	\$1,119.10
Less subscription from St. Paul Jobbers Union	500.00
Net cost races and attractions	\$619.10

Disbursements.

EXHIBIT A.

SPECIAL ATTRACTIONS.

Nancy Hanks	\$2,500.00
J. I. O.	800.00
Jack	375.00
Martha Wilkes	375.00
Band	420.00
Total	\$4,470.00

EXHIBIT B.

PRINTING.

Brown & Treacy	\$62.70
Red Wing Printing Co.	99.46
F. L. Sirxas	17.50
Pioneer Press Co.	240.25
Dispatch Printing Co.	29.00
Brown & Treacy	239.28
Price, McGill & Co.	635.25
Joel P. Heatwole	10.00
Total	<u>\$1,333.44</u>

EXHIBIT C.

ADVERTISING.

St. Paul Globe	\$230.50
Minneapolis Tribune	421.30
Pioneer Press	255.00
St. Paul Dispatch	236.75
Minneapolis Journal	249.00
Minneapolis Times	258.50
St. Paul Daily News	183.00
Farm, Stock and Home	125.00
N. W. Agriculturist	50.00
N. W. Farmer and Breeder	50.00
Die Volkszeitung	30.00
Hotel News	15.00
Skordemannen	10.00
Svenska Folkets Tidning	16.50
Nordvesken	10.00
Programme Publishing Co.	5.00
Anoka County Union	18.00
Tidende	16.50
Breeders' Gazette	15.00
L. N. Scott Programme Co	25.00
Scandinavisk Farmer Journal	25.00
Wisconsin Farmer	10.00
Total	<u>\$2,255.05</u>

EXHIBIT D.

LABOR AND REPAIRS.

M. Shilstad, pay roll	\$70.00
M. Shilstad, pay roll	70.00
M. Shilstad <i>et al.</i>	374.00
Pay roll, repairing main building	282.78
Pay roll, labor during fair	590.69
Pay roll, assistants during fair	950.00
C. Gantzer, cleaning barns during fair	80.00
J. McDonald, carpenter	91.12
Pay roll, labor	374.87
Jos. Bannister, whitewashing	53.08
M. F. Cross, pay roll during fair	404.75
M. Shilstad <i>et al.</i> , labor	141.25
Total	<u>\$3,482.54</u>

EXHIBIT E.

PREMIUMS PAID.

Division A—Horses.....	\$2,585.00
Division B—Cattle.....	4,590.00
Division C—Sheep.....	936.00
Division D—Swine.....	845.00
Division E—Poultry.....	396.00
Division F—Dairy.....	456.20
Division G—Apriarian.....	277.00
Division H—Household Fabrics.....	432.50
Division J—Fruits and Flowers.....	777.00
Division K—Vegetables.....	520.00
Division L—Domestic Stores.....	185.00

Total..... \$12 009.70

There is a difference between the above amount and the report December 10th, 1892. This is owing to protests of awards made during the fair and settled since.

EXHIBIT F.

PERMANENT IMPROVEMENTS.—PAINTING.

J. L. Cosgrove, oil.....	\$86.36
Pay roll, painters.....	372.10
Pay roll, painters.....	367.09
Pay roll, painters.....	414.24
Pay roll, painters.....	98.00
Noyes Bros. & Cutler, paint.....	863.09
T. L. Blood & Co., paint.....	100.29
Geo. H. Davis, painter.....	9.50
Pay roll, painters.....	279.91
Pay roll, painters.....	103.40
Adolph Rank, painter.....	65.75
Noyes Bros. & Cutler.....	92.45

Total..... \$2,852.18

GRADING STREETS AND WALKS.

P. Peteler, landscape drawing.....	\$50.00
P. Peteler, landscape gardener.....	100.00
Pay roll, grading... ..	1,137.55
Pay roll, grading.....	1,117.98
Pay roll, grading.....	283.05
Pay roll, grading.....	214.95
Pay roll, grading.....	330.05

Total..... \$3,233.58

TREES.

Labette, trees.....	\$46.80
Freight, trees.....	17.00
C. Farnham, trees.....	40.00
Freight, trees.....	18.00
L. Edlefson, trees and shrubs.....	132.75
W. Larson, trees.....	173.10
P. Peteler, trees.....	51.83
Experimental station trees.....	21.85

Total..... \$501.33

MISCELLANEOUS.

Clough Bros., Lumber.....	\$186.82
Brooks Bros., lumber.....	239.15
Clark, use of scrapers.....	12.50
Swanson, window.....	25.00
Scribner, Libby & Co.....	30.00
H. P. Rugg & Co.....	60.00
F. G. McMillan, supervising architect.....	300.00
Charles T. Leonard.....	11.00
Farwell, Ozman & Co.....	57.44
Adam Decker.....	39.34
Jas. H. Bishop.....	4.50
Mast, Buford & Burwell, fence.....	591.90
McClellan Bros.....	5.10
Total.....	\$1,562.75
Total permanent improvements	\$8,149.84

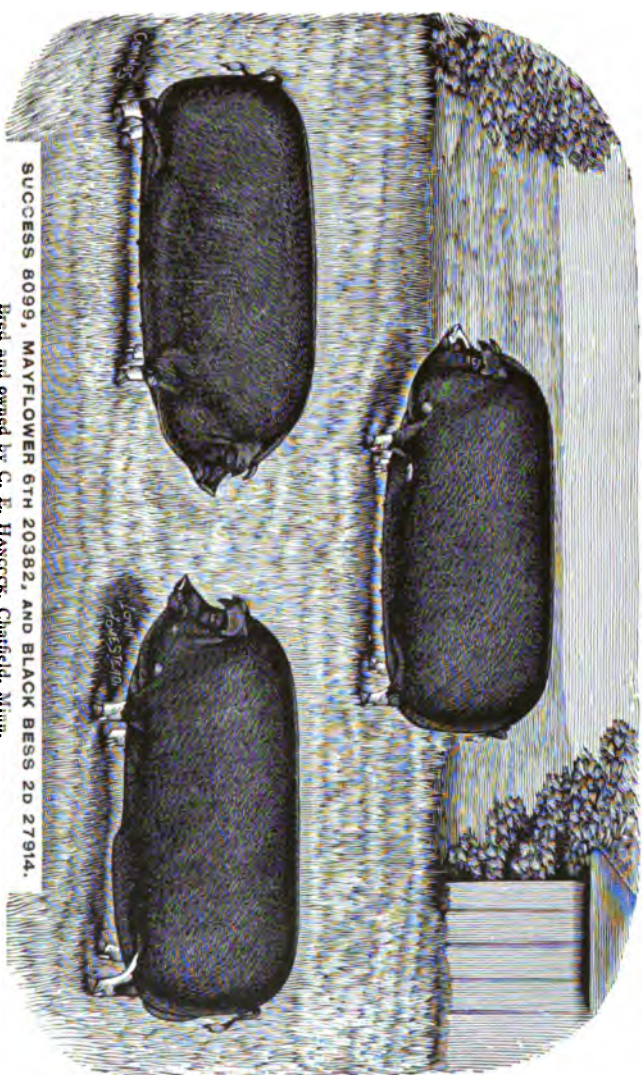
We present herewith a group of Poland Chinas, a part of our show herd that have been shown successfully at the fairs. The Poland China hog is almost too well known to need any introduction; it is not like most other breeds of stock, of English origin, but is purely an American product, having originated and been brought to its high standard of perfection in the United States. Its merits have won its success with the American farmer. It has also been exported and successfully raised in other countries. It is of a kind and quiet disposition, a quiet feeder, and when fed until satisfied will rest quietly until next feeding time, and for that reason is a great meat producer. It has the habit of taking on flesh very rapidly with ordinary feeding, and is always ready for market from the time when he is a little roaster until he is the prime, heavy hog of the Chicago market, fetching the highest market price and weighing from 500 to 800 lbs. at maturity, some of the coarser specimens reaching over 1,000 lbs. weight.

The sows are noted for carefulness and productiveness in rearing young, very frequently farrowing from eight to fifteen pigs to a litter, and raising a large per cent. of them. The young porker is known by his nearly black body, with perhaps a spot or two on the body, four white feet and a white tip on his tail, his neat head and drooping ears, broad shoulders, back and hams, good length of body and great depth of carcass on a good set of limbs capable of carrying him to market.

In fact he is the ideal farmer's hog, as shown by his popularity, there being at least 75 per cent. of all the hogs raised in the United States of the breed and its crosses. Other breeds have come and almost gone out of existence, but the Poland China has come to stay.

The Poland China is a great pork producer on a grass and clover pasture. Turned into a good clover or grass pasture they will lay on a good coat of meat with nothing else only plenty of pure water to drink and a protection from the sun and storms. There is no kind of stock, taking one year with another, on the farm that is so profitable as the good Poland China of to-day.

C. E. HANCOCK,
Chatfield, Minn.



SUCCESS 8099, MAYFLOWER 6TH 20382, AND BLACK BESS 2D 27914.

Bred and owned by C. E. Hawcock, Chaffield, Minn.



"LOCKHEART" BY NUTWOOD; DAM RAPIDAN BY DICTATOR. OWNED BY GEORGE W. SHERWOOD
ST. PAUL, MINN.

EXHIBIT G.

PREMIUMS AND AWARDS.

Premiums and awards.....\$4,585.00

DIVISION A.—HORSES AND MULES.

CLARK CHAMBERS, Superintendent, Owatonna.

JOHN BYERS, Assistant Superintendent, Hastings.

A. CARLSON, Judge of Class 1 to 6.

W. E. PRITCHARD, Judge of Classes 7 to 20.

CLASS 1.—THOROUGHBREDS.

	1st prem.
Stallion, four years or over, H. R. Shrimpton, St. Paul.....	\$20.00
Stallion, one year old, and under two, Deakin Bros., Macalaster...	15.00
Mare, four years or over, Deakin Bros., Macalaster.....	20.00

CLASS 2.—TROTTING STRAINS, STANDARD BRED AND REGISTERED.

	1st prem.	2d prem.
Stallion, four years or over, W. C. Colbrath, Minneapolis..	\$25.00	
Stallion, four years or over, Michael Kennedy, Mendota...		\$15.00
Stallion, four years or over, C. D. Andrews, St. Paul...	Third	5.00
Stallion, two years and under three, H. W. Pratt & Watson Co., Minneapolis.....	15.00	
Stallion, two years and under three, J. LeDue, Lu Verne.		10.00
Stallion, two years and under three, H. W. Phelps, Minneapolis.....	Third	5.00
Stallion, one year old and under two, F. H. Colby, Minneapolis.....	15.00	
Stallion, one year old and under two, Wm. Bolten, Combe.		10.00
Mare, four years old or over, A. C. Bruce, Minneapolis...	20.00	
Mare, two years old and under three, F. H. Colby, Minneapolis.....	15.00	
Mare, one year old and under two, F. H. Colby, Minneapolis.....	15.00	

Sweepstakes.

For stallion, any age, W. C. Colbrath, Minneapolis.....	50.00	
For stallion, any age, Michael Kennedy, Mendota.....		25.00
For colts, four in number, of either sex, any age, the get of one stallion; the sire not required to be shown; the colts not necessarily owned by the exhibitor, A. C. Bruce, Minneapolis.....	25.00	
For colts, two in number, of either sex, any age, the produce of one mare; the colts not necessarily owned by the exhibitor, F. H. Colby, Minneapolis.....	15.00	

CLASS 3.—TROTTING STRAINS NOT ELIGIBLE TO REGISTRY.

Stallion, four years or over, C. P. Gove, Anoka.....	20.00	
Stallion, four years or over, C. P. Gove, Anoka.....		15.00
Stallion, three years and under four, C. P. Gove, Anoka	15.00	
Stallion, three years and under four, C. P. Gove, Anoka.		10.00
Stallion, two years and under three, F. H. Colby, Minneapolis.....	15.00	

	1st prem.	2d prem.
Stallion, two years and under three, Wm. F. Gritten North Minneapolis.....		\$10.00
Stallion, one year and under two, A. C. Bruce, Minneapolis.....	\$15.00	
Stallion, one year and under two, J. N. Hawkins, Minneapolis.....		10.00
Mare, four years old and over, A. C. Bruce, Minneapolis..	20.00	
Mare, four years old and over, C. P. Gove, Anoka.....		15.00
Mare, three years and under four, C. P. Gove, Anoka	15.00	
Mare, two years and under three, C. P. Gove, Anoka	15.00	
Mare, two years and under three, A. C. Bruce, Minneapolis		10.00
Mare, one year and under two, C. H. Card, Anoka.....	15.00	
Mare, one year and under two, C. P. Gove, Anoka.....		10.00

Sweepstakes.

For stallion, any age, C. P. Gove, Anoka.....	50.00	
For stallion, any age, J. N. Hawkins, Minneapolis.....		25.00

CLASS 4.—ROADSTERS.

Single mare or gelding, F. H. Colby, Minneapolis.....	10.00	
Single mare or gelding, Elias Moses, Minneapolis.....		5.00

CLASS 5.—CARRIAGE TEAMS, SINGLE GELDINGS OR MARES.

(Stallions excluded.)

Carriage team, matched and mated, owned by exhibitor, C. D. Andrews, St. Paul, diploma and.....	10.00	
Single gelding or mare, C. D. Andrews, St. Paul, diploma and.....	10.00	
Single gelding or mare, Elias Moses, Minneapolis.....		5.00

CLASS 6.—SADDLE HORSES.

No Awards.

CLASS 7.—CLEVELAND BAY, ENGLISH COACH, ENGLISH HACKNEY, CAB AND OTHER COACH HORSES.

Stallion, four years or over, W. H. Charlton, Minneapolis	25.00	
Stallion, four years or over, Galbraith Bros., Janesville...		15.00
Stallion, four years or over, N. P. Clarke, St. Cloud.....	Third	5.00
Stallion, three years and under four, W. M. Fields & Bro.	15.00	
Stallion, three years and under four, W. M. Fields & Bro.		10.00
Stallion, three years and under four, W. M. Fields & Bro.	Third	5.00
Stallion, two years and under three, Galbraith Bros., Janesville.....	15.00	
Stallion, one year and under two, W. H. Charlton, Minneapolis.....	15.00	
Mare, four years or over, W. M. Fields & Bro., Cedar Falls, Iowa.....	20.00	
Mare, four years or over, W. M. Fields & Bro., Cedar Falls, Iowa.....		10.00
Mare, one year and under two, W. M. Fields & Bro., Cedar Falls, Iowa.....	15.00	

Sweepstakes.

For stallion, of any age, W. H. Charlton, Minneapolis...	50.00	
For stallion, of any age, W. M. Fields & Bro., Cedar Falls, Iowa.....		25.00



"YOUNG PHENOMENON" (2780) TO A. H. S. B. A. S. B. BLACK; FOALD 181. SIRE YOUNG PERFECTION (2780); DAM BY PHENOMENON II, 2721. OWNED AND IMPORTED BY W. M. FIELDS & BRO., CEDAR FALLS, IOWA.

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"GILBERT," 5154 (401). [RECORDED WITH PEDIGREE IN THE PERCHERON STUD-BOOKS OF FRANCE AND AMERICA]. GREY: 16½ HANDS; WEIGHT, 2,020 LBS.; FOALING MARCH, 1892; IMPORTED 1893; BREED BY M. SHALOT, COMMUNE OF CETON, CANTON OF THIERS, DEPARTMENT OF ORNE; GOT BY BRILLIANT 1271 (759); DAM SOPHIE (599) BY FAYORA 666 (725). OWNED BY LEONARD JOHNSON, NORTHFIELD, MINN.

CLASS 8.—FRENCH AND GERMAN COACH.

	1st prem.	2d prem.
Stallion, four years old or over, E. Knott & Co., Waverly, Iowa.....	\$25.00	
Stallion, four years old or over, L. Johnson, Northfield....		\$15.00
Stallion, four years old or over, E. Knott & Co., Waverly, Iowa.....	Third	5.00
Stallion, three years and under four, E. Knott & Co., Waverly, Iowa.....	15.00	
Stallion, three years and under four, J. O. Billings, Fergus Falls.....		10.00
Stallion, three years and under four, T. L. and J. L. Delaney, Northfield.....	Third	5.00
Stallion, two years and under three, L. Johnson, Northfield.....	15.00	
Mare, one year old and under two, L. Johnson, Northfield.....	15.00	
Mare, one year old and under two, L. Johnson, Northfield.....		10.00
<i>Sweepstakes.</i>		
For stallion, of any age, E. Knott & Co., Waverly, Iowa....	50.00	
For stallion, of any age, L. Johnson, Northfield.....		25.00

CLASS 9.—IMPORTED AND NATIVE PURE BRED PERCHERON.

Stallion, four years or over, Elias Pederson, Norway, Iowa.....	30.00	
Stallion, four years or over, T. L. and J. L. Delancy, Northfield.....		20.00
Stallion, four years or over, T. L. and J. L. Delancy, Northfield.....	Third	10.00
Stallion, three years and under four, H. A. Briggs, Elkhorn, Wis.....	20.00	
Stallion, three years and under four, L. Johnson, Northfield.....		15.00
Stallion, three years and under four, J. O. Billings, Fergus Falls.....	Third	5.00
Stallion, two years and under three, T. L. and J. L. Delancy, Northfield.....	15.00	
Stallion, two years and under three, J. O. Billings, Fergus Falls.....		10.00
Stallion, two years and under three, H. A. Briggs, Elkhorn, Wis.....	Third	5.00
Stallion, one year and under two, H. A. Briggs, Elkhorn, Wis.....	15.00	
Stallion, one year and under two, H. A. Briggs, Elkhorn, Wis.....		10.00
Mare, four years or over, L. Johnson, Northfield.....	25.00	
Mare, four years or over, T. L. & J. L. Delancy, Northfield.....		15.00
Mare, four years or over, H. A. Briggs, Elkhorn, Wis....	Third	5.00
Mare, three years and under four, T. L. & J. L. Delancy, Northfield.....	20.00	
Mare, three years and under four, H. A. Briggs, Elkhorn, Wis.....		15.00
Mare, three years and under four, L. Johnson, Northfield.....	Third	5.00
Mare, two years and under three, T. L. & J. L. Delancy, Northfield.....	15.00	
Mare, two years and under three, L. Johnson, Northfield.....		10.00
Mare, two years and under three, H. A. Briggs, Elkhorn, Wis.....	Third	5.00
Mare, one year and under two, L. Johnson, Northfield.....	15.00	
Mare, one year and under two, L. Johnson, Northfield.....		10.00

Sweepstakes.

1st prem. 2d prem.

For stallion of any age, Elias Pederson, Norway, Iowa,...	\$50.00	
For stallion of any age, H. A. Briggs, Elkhorn, Wis....		\$25.00

CLASS 10.—IMPORTED AND NATIVE PURE BRED FRENCH DRAFT.

Stallion, four years or over, Francis Davis & Son, Goodhue.....	30.00	
Stallion, four years or over, T. L. & J. L. Delancy, Northfield.....		20.00
Stallion, three years and under four, G. M. Hughes, St. Paul.....	20.00	
Stallion, three years and under four, T. L. & J. L. Delancy, Northfield.....		15.00
Stallion, two years and under three, J. O. Billings, Fergus Falls.....	15.00	
Stallion, two years and under three, J. O. Billings, Fergus Falls.....		10.00
Stallion, two years and under three, T. L. & J. L. Delancy, Northfield.....	Third	5.00
Mare, four years or over, T. L. & J. L. Delancy, Northfield.....	25.00	

Sweepstakes.

For stallion of any age, Francis Davis & Son, Goodhue.....	50.00	
For stallion of any age, T. L. & J. L. Delancy, Northfield*.....		25.00

CLASS 11.—CLYDESDALE.

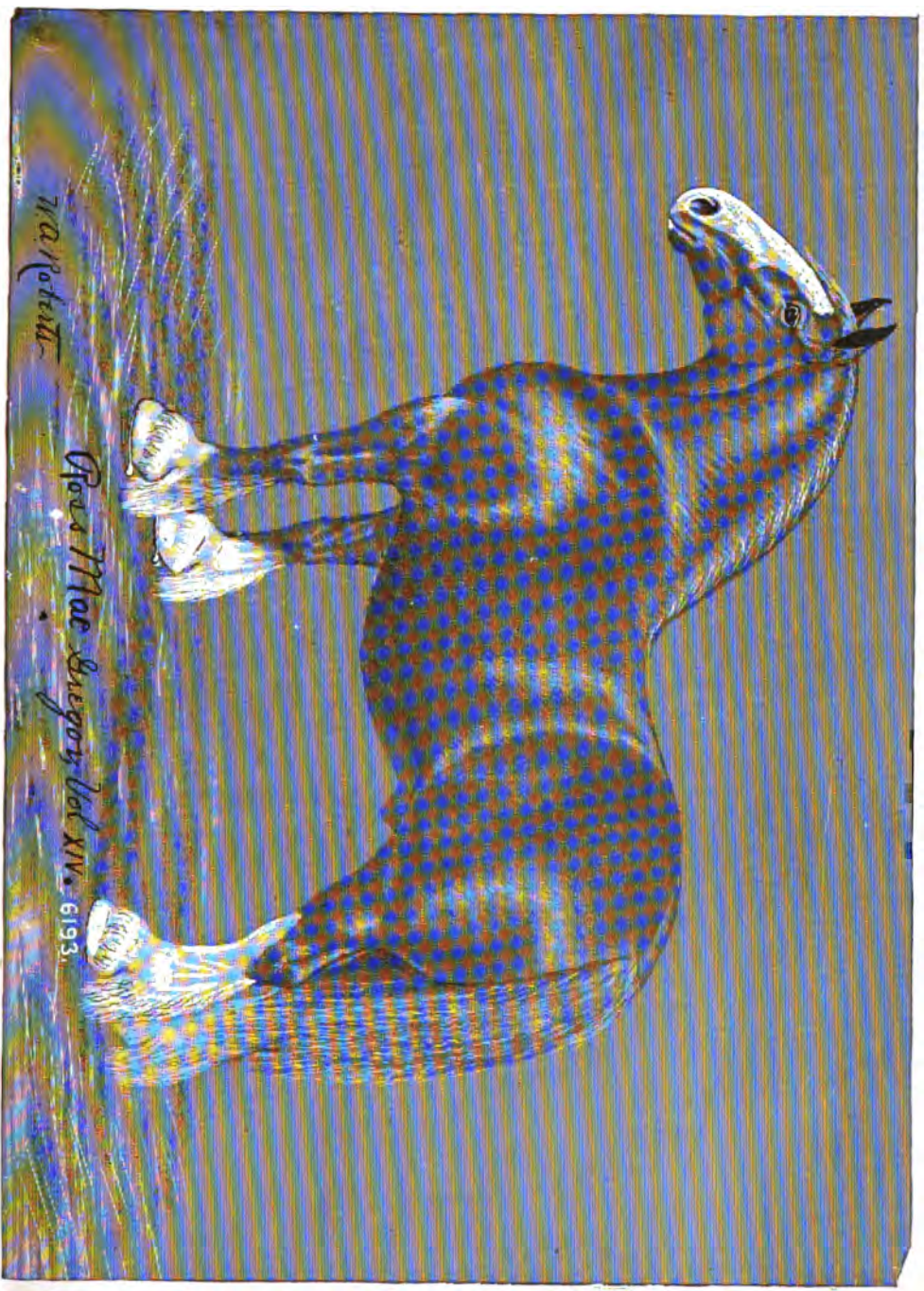
Stallion, four years or over, Galbraith Bros., Janesville, Wis.....	30.00	
Stallion, four years or over, N. P. Clarke, St. Cloud....	Third 10.00	20.00
Stallion, four years or over, John Zelch, Cottage Grove..	Commended.	
Stallion, three years and under four, Galbraith Bros., Janesville, Wis.....	Third 5.00	20.00
Stallion, three years and under four, N. P. Clarke, St. Cloud.....		15.00
Stallion, two years and under three, N. P. Clarke, St. Cloud.....	Third 5.00	15.00
Stallion, two years and under three, Galbraith Bros., Janesville, Wis.....		10.00
Stallion, one year and under two, N. P. Clarke, St. Cloud..	15.00	10.00
Mare, four years or over, N. P. Clarke, St. Cloud.....	25.00	
Mare, three years and under four, N. P. Clarke, St. Cloud.	20.00	15.00
	Third	5.00
Mare, two years and under three, N. P. Clarke, St. Cloud.	15.00	10.00
Mare, one year and under two, N. P. Clarke, St. Cloud.	15.00	

Sweepstakes.

For stallion, of any age, Galbraith Bros., Janesville, Wis	50.00	
For stallion, of any age, N. P. Clarke, St. Cloud.....		25.00

CLASS 12.—ENGLISH SHIRE.

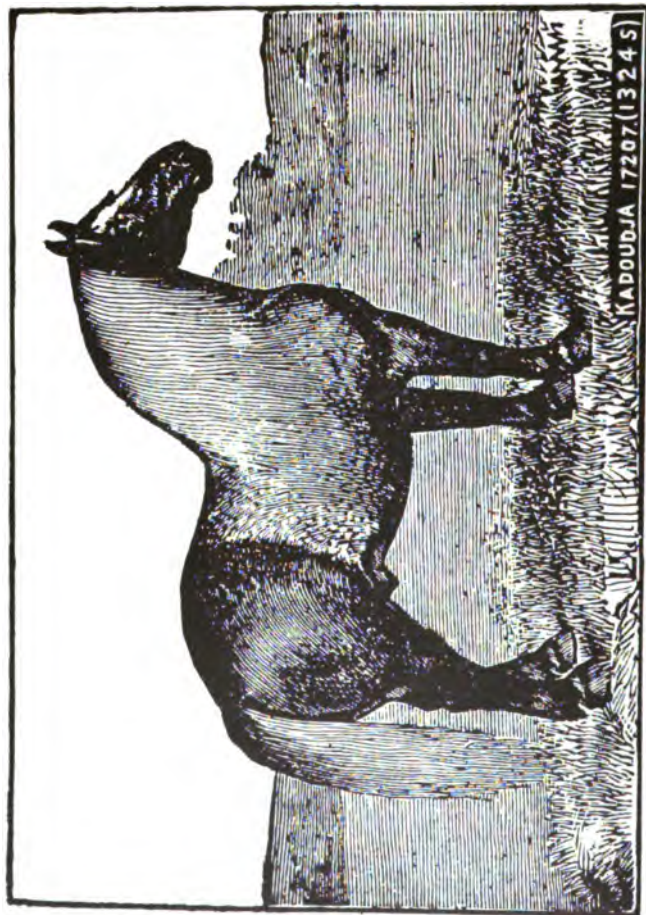
Stallion, four years or over, W. M. Fields & Bro., Janesville, Wis.....	25.00	
Stallion, four years or over, Galbraith Bros., Janesville, Wis.....	Third 5.00	15.00
Stallion, three years and under four, W. H. Charlton, Minneapolis.....	15.00	
Stallion, three years and under four, G. M. Hughes, St. Paul		10.00
Stallion, three years and under four, W. M. Fields & Bro., Cedar Falls, Ia.....	Third	5.00



W. J. Clark

Ross Mac Gregor Vol. XIV. 6193.

"ROSS MACGREGOR" 6193. [RECORDED IN VOL. VII, AMERICAN CYTHERDATE STUD BOOK]. BAY, WHITE FACE, OFF LEGS WHITE, NEAR FORE FOOT PARTLY WHITE. FOALING MAY 10, 1890; SIRE, MACGREGOR 4099 (1870). DAM, JESS (1880). BREED BY JAMES FINLAY, KIRKCUDBRIGHT, SCOTLAND. IMPORTED AUGUST, 1891, BY N. D. CLARK, ST. CLOUD, MINNESOTA.



"KADUDJA" 17207 (13245). BLACK GREY STALLION. FOAL'D MARCH 27, 1887. SIRE, GILBERT JOHNSON'S 5154 (461). DAM, CHOLON 7030 BY BRILLIANT 271 (755). OWNED AND IMPORTED BY JOHN ZELCH, COTTAGE GROVE, MINN.

	1st prem.	2d prem.
Stallion, two years and under three, G. M. Hughes, St. Paul.....	\$15.00	\$10.00
Stallion, one year and under two, G. M. Hughes, St. Paul..	15.00	
Mare, four years or over, W. M. Fields & Bros., Cedar Falls, Iowa.....	20.00	
Mare, three years and under four, W. H. Charlton, Mpls..	15.00	
Mare, one year and under two, W. M. Fields & Bros., Cedar Falls, Iowa.....	15.00	

Sweepstakes.

For stallion, of any age, W. M. Fields & Bros., Cedar Falls, Iowa.....	50.00	
For stallion, of any age, Galbraith Bros., Janesville, Wis.		25.00

CLASS 13.—BELGIAN AND SUFFOLK PUNCH.

Stallion, four years or over, E. Knott & Co., Waverly, Ia.	25.00
Stallion, two years and under three, E. Knott & Co., Waverly, Iowa.....	15.00

Sweepstakes.

For stallion, of any age, E. Knott & Co., Waverly, Iowa..	50.00
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CLASS 14.—GRAND STALLION SWEEPSTAKES.

Registered draft stallion, any breed, showing four or more of his get, N. P. Clarke, St. Cloud.....	100.00
Registered draft stallion, any breed, showing four or more of his get, H. A. Briggs, Elkhorn, Wis.....	50.00

CLASS 15.—GRAND SWEEPSTAKES.

No awards.

CLASS 16.—FARMERS' SWEEPSTAKES.

(Importers, breeders and dealers of imported stock, barred.)

Registered draft stallion, any age or breed, owned in Minnesota, having served at least twenty mares in the state during 1892, E. S. St. Martin, Bloomington.....	30.00
Registered draft stallion, any age or breed, owned in Minnesota, having served at least twenty mares in the state, during 1892, Francis Davis & Sons, Goodhue.....	20.00

AGRICULTURAL CLASSES—GRADES.

CLASS 17.—PERCHERON AND FRENCH DRAFT.

Brood mare, John Zelch, Cottage Grove.....	20.00	
Filly, three years or over, T. L. & J. L. Delancy, Northfield	15.00	
Filly, two years and under three, H. A. Briggs, Elkhorn, Wis.....	15.00	
Filly, two years and under three, E. S. St. Martin, Bloomington	Third 5.00	10.00
Filly, one year and under two, E. St. Martin, Bloomington.....	Third 5.00	15.00
Filly, one year and under two, John Zelch, Cottage Grove.....		10.00

CLASS 18.—CLYDESDALE AND ENGLISH SHIRE.

No entries.

SWEEPSTAKES.

	1st prem.	2d prem.
Pair of stallions or mares, or mare and gelding, weighing 3,000 lbs. or over, to be shown in harness to wagon, John Zelch, Cottage Grove.....	\$40.00	
Grade mare, any age, showing two of her foals, John Zelch, Cottage Grove.....	25.00	

CLASS 19.—PONIES,

(Not to exceed 13 hands high.)

Herd of ponies, five or more, owned by one individual Fletcher Bros., Minneapolis.....	25.00	
Herd of ponies, five or more, owned by one individual James Alderson, Merriam Park.....		15.00

CLASS 20.—JACKS AND MULES.

No entries.

Total.....	\$2,585.00
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EXHIBIT H.

DIVISION B.—CATTLE.

Premiums awarded.....	\$4,590.00
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W. M. LIGGETT, Benson, Superintendent.

R. M. HAMAR,	}	Judges of classes 21, 22 and 23.
H. J. FLUCK,		
THOS. SHAW,		
H. J. FLUCK,	}	Judge of classes 24 and 25.
W. M. CURTIS,		Judge of classes 26 and 27.
W. M. CURTIS,	}	Judges of classes 28, 29 and 37.
THOS. SHAW,		
W. M. CURTIS,		
THOS. SHAW,	}	Judges of classes 34 to 39.
R. M. HAMAR,		
H. J. FLUCK.		

CLASS 21.—SHORTHORN.

Bull, three years or over, H. F. Brown, Minneapolis.....	\$20.00	
Bull, three years or over, Geo. W. Lyle, Monroe, Iowa....		\$15.00
Bull, two years and under three, H. F. Brown, Minneapolis.....	15.00	
Bull, one year and under two, H. F. Brown, Minneapolis.	15.00	10.00
Bull calf, under one year and over four months, H. F. Brown, Minneapolis.....	15.00	10.00
Cow, three years or over, H. F. Brown, Minneapolis.....	20.00	
Cow, three years or over, Geo. W. Lyle, Monroe, Ia.....		15.00
Cow, three years or over, G. W. Lyle, Monroe, Ia.....		Commended.
Heifer, two years and under three, H. F. Brown, Minneapolis.....	15.00	
Heifer, two years and under three, Geo. W. Lyle, Monroe, Ia.....		10.00
Heifer, one year and under two, Geo. W. Lyle, Monroe, Ia	15.00	
Heifer, one year and under two, H. F. Brown, Minneapolis		10.00
Heifer calf, under one year and over four months, H. F. Brown, Minneapolis.....	10.00	
Heifer calf, under one year and over four months, Geo. W. Lyle, Monroe, Ia.....		5.00



EARL FAME.

SHORTHORN BULL, "EARL FAME 8TH" NOW WEIGHS 290. SIRE, BARON WARLAW 7878. DAM, FAME 7TH BY 8TH DUKE OF VINE-WOOD 3245. TRACING HIS PEDIGREE TO IMP. FILIGREE, BY AHRAM PARKER 1836.

EARL FAME 8TH headed the Brownbald herd at the five largest fairs in the United States last fall, and the herd was victorious at them all, taking every blue ribbon and two gold medals save one red. The herd will be on exhibition at the World's Fair at Chicago next season, 25 strong. Owned by H. F. BROWN, NINNEAPOLIS, MINN.

HERDS.—OWNED BY EXHIBITORS.
No entries.

CLASS 22.—HEREFORD.

	1st prem.	2d prem.
Bull, three years or over, Cosgrove Live Stock Co., LeSueur	\$20.00	
Bull, two years and under three, Thos. Clark, Beecher, Ill	15.00	
Bull, two years and under three, Cosgrove Live Stock Co., LeSueur.....		\$10.00
Bull, one year and under two, H. J. Fluck, Goodenow, Ill.	15.00	
Bull, one year and under two, Cosgrove Live Stock Co., LeSueur.....		10.00
Bull calf, under one year and over four months, Cosgrove Live Stock Co., LeSueur.....	15.00	
Bull calf, under one year and over four months, Thos. Clark, Beecher, Ill.....		10.00
Cow, three years or over, Cosgrove Live Stock Co., LeSueur	20.00	15.00
Heifer, two years and under three, Thos. Clark, Beecher, Ill.....	15.00	10.00
Heifer, one year and under two, Cosgrove Live Stock Co., LeSueur.....	15.00	10.00
Heifer calf, under one year and over four months, Thos. Clark, Beecher, Ill.....	10.00	
Heifer calf, under one year and over four months, H. J. Fluck, Goodenow, Ill.....		5.00

HERDS.

(Owned by Exhibitors.)

Herd young cattle, to consist of one bull and four females, under two years old, by same bull, Cosgrove Live Stock Co., LeSueur.....	35.00
Get of one sire, four females, under four years old, Cos- grove Live Stock Co., LeSueur.....	25.00

Specials.

Offered by the American Hereford Cattle Breeders' Association.

For best Hereford herd of one bull and four females under two years old, Cosgrove Live Stock Co, LeSueur..	30.00	20.00
For best four Herefords under two years, the get of one bull, bred and owned by exhibitor, Cosgrove Live Stock Co., LeSueur.....	30.00	
For best four Herefords under two years, the get of one bull, bred and owned by exhibitor, H. J. Fluck, Good- enow, Ill.....		20.00

CONDITIONS.—Animals to be eligible to compete for above prizes must
be recorded in the American Hereford Record.

C. R. THOMAS, *Secretary.*

CLASS 23.—HERD SWEEPSTAKES, BEEF.

(Herd to consist of one bull, any age, and four females one year or over.)

Best herd cattle owned in the state, H. F. Brown, Minne- apolls.....	100.00
Best herd cattle owned in the state, Cosgrove Live Stock Co., LeSueur.....	50.00

CLASS 24.—POLLED ANGUS, OR ABERDEEN.

No entries.

HERDS.

(Owned by exhibitor.)

No entries.

Special.

THE AMERICAN ABERDEEN-ANGUS BREEDER'S ASSOCIATION.

No entries.

CLASS 25.—GALLOWAY.

	1st prem.	2d prem.
Bull, three years or over, Brookside Farm Co., Ft. Wayne, Ind.....	\$20.00	\$15.00
Bull, two years and under three, Brookside Farm Co., Ft. Wayne, Ind.....	15.00	
Bull, one year and under two, Hugh Paul, Dundee.....	15.00	
Bull, one year and under two, Brookside Farm Co., Ft. Wayne, Ind.....		10.00
Bull calf, under one year and over four months, Brookside Farm Co., Ft. Wayne, Ind.....	15.00	
Bull calf, under one year and over four months, Hugh Paul, Dundee.....		10.00
Cow, three years and over, Brookside Farm Co., Ft. Wayne, Ind.....	20.00	
Cow, three years and over, Hugh Paul, Dundee.....		15.00
Heifer, two years and under three, Brookside Farm Co., Ft. Wayne, Ind.....	15.00	
Heifer, two years and under three, Hugh Paul, Dundee..		10.00
Heifer, one year and under two, Brookside Farm Co., Ft. Wayne, Ind.....	15.00	
Heifer, one year and under two, Hugh Paul, Dundee....		10.00
Heifer calf, under one year and over four months, Brookside Farm Co., Ft. Wayne, Ind.....	10.00	
Heifer calf, under one year and over four months, Hugh Paul, Dundee.....		5.00

HERDS.

(Owned by exhibitor.)

Herd, young cattle, to consist of one bull and four females under two years old, by same bull, Brookside Farm Co., Ft. Wayne, Ind.....	35.00
Get of one sire, four females under four years, Hugh Paul, Dundee.....	25.00

CLASS 26.—DEVON.

Bull, three years or over, E. S. Hoppin, Dexter.....	20.00	
Bull calf, under one year and over four months, E. S. Hoppin, Dexter.....	15.00	
Cow, three years or over, E. S. Hoppin, Dexter, Com....	20.00	15.00
Heifer, two years and under three, E. S. Hoppin, Dexter	15.00	
Heifer, one year and under two, E. S. Hoppin, Dexter	15.00	10.00
Heifer calf, under one year and over four months, E. S. Hoppin, Dexter.....	10.00	

HERDS.

(Owned by exhibitor.)

Herd, young cattle, to consist of one bull and four females, under two years, by same bull, E. S. Hoppin, Dexter	35.00
Get of one sire, four females under four years, E. S. Hoppin, Dexter.....	25.00

CLASS 27.—RED POLLED.

Bull, three years or over, J. H. Gilfillan, Maquaketa, Iowa..	20.00	
Bull, two years and under three, J. H. Gilfillan, Maquaketa, Ia.....	15.00	
Bull, one year and under two, J. H. Gilfillan, Maquaketa, Ia.....	15.00	
Bull calf, under one year and over four months, J. H. Gilfillan, Maquaketa, Ia.....	15.00	10.00
Cow, three years or over, J. H. Gilfillan, Maquaketa, Ia.	20.00	15.00
Heifer, two years and under three, J. H. Gilfillan, Maquaketa, Ia.....	15.00	10.00

	1st prem.	2d prem.
Heifer, one year and under two, J. H. Gilfillan, Maquaketa, Ia.....	\$15.00	\$10.00
Heifer calf, under one and over four months, J. H. Gilfillan, Maquaketa.....	10.00	5.00

HERDS.

(Owned by exhibitor.)

Herd young cattle, to consist of one bull and four females under two years old, by same bull, J. H. Gilfillan, Maquaketa.....	35.00
Get of one sire, four females under four years old, J. H. Gilfillan.....	25.00

CLASS 28.—HOLSTEIN.

Bull three years or over, M. E. Moore, Cameron, Mo.....	20.00	
Bull three years or over, E. F. Irwin, Richfield.....		15.00
Bull two years and under three, E. F. Irwin, Richfield....	15.00	
Bull one year and under two, E. F. Irwin, Richfield.....	15.00	
Bull one year and under two, M. E. Moore, Cameron, Mo.		10.00
Bull calf, under one year and over four months, M. E. Moore, Cameron, Mo.....	15.00	
Bull calf, under one year and over four months, E. F. Irwin, Richfield.....		10.00
Cow, three years or over, M. E. Moore, Cameron, Mo....	20.00	
Cow, three years or over, E. F. Irwin, Richfield.....		15.00
Heifer, two years and under three, M. E. Moore, Cameron, Mo.....	15.00	
Heifer, two years and under three, E. F. Irwin, Richfield		10.00
Heifer, one year and under two, E. F. Irwin, Richfield...	15.00	
Heifer, one year and under two, M. E. Moore, Cameron, Mo.....		10.00
Heifer calf, under one year and over four months, M. E. Moore, Cameron.....	10.00	
Heifer calf, under one year and over four months, E. F. Irwin, Richfield.....		5.00

HERDS.

(Owned by exhibitor.)

Herd young cattle, to consist of one bull and four females under two years old, by same bull, E. F. Irwin, Richfield.....	35.00
Get of one sire, four females under four years, E. F. Irwin.....	25.00

CLASS 29.—JERSEY.

Bull, three years or over, G. S. Bicknell, Minneapolis.....	20.00	
Bull, three years or over, G. W. Dixon, Aberdeen, S. D....		15.00
Bull, one year and under two, La Veta Jersey Cattle Co., Topeka, Kansas.....	15.00	
Bull, one year and under two, G. S. Bicknell, Minneapolis.		10.00
Bull calf, under one year and over four months, G. S. Bicknell, Minneapolis.....	15.00	
Bull calf, under one year and over four months, La Veta Jersey Cattle Co., Topeka.....		10.00
Cow, three years or over, La Veta Jersey Cattle Co., Topeka, Kansas.....	20.00	

	1st prem.	2d prem.
Cow, three years or over, G. S. Bicknell, Minneapolis.....		\$15.00
Heifer, two years and under three, La Veta Jersey Cattle Co., Topeka.....	\$15.00	
Heifer, two years and under three, G. W. Dixon, Aberdeen, S. D.....		10.00
Heifer, one year and under two, La Veta Jersey Cattle Co., Topeka.....	15.00	
Heifer, one year and under two, G. S. Bicknell, Minneapolis.....		10.00
Heifer calf, under one year and over four months, G. S. Bicknell, Minneapolis.....	10.00	
Heifer calf, under one year and over four months, G. W. Dixon, Aberdeen.....		5.00

HERDS.

(Owned by exhibitor.)

Herd young cattle, to consist of one bull and four females under two years, by same bull, La Veta Jersey Cattle Co., Topeka.....	35.00
Get of one sire, four females under four years, La Veta Jersey Cattle Co., Topeka.....	25.00

CLASS 30.—GUERNSEY.

Bull, three years or over, F. C. Pillsbury estate, Minneapolis.....	20.00	
Bull, one year and under two, F. C. Pillsbury estate Minneapolis.....	15.00	10.00
Cow, three years or over, F. C. Pillsbury estate, Minneapolis	20.00	15.00
Heifer, one year and under two, F. C. Pillsbury estate, Minneapolis.....	15.00	10.00
Heifer calf, under one year and over four months, F. C. Pillsbury estate, Minneapolis....	10.00	

HERDS.

(Owned by exhibitor.)

No entries.

CLASS 31.—BROWN SWISS AND DUTCH BELT.

Bull, two years and under three, F. A. Squiers, Blue Earth City.....	15.00	10.00
Bull calf, under one year and over four months, F. A. Squiers, Blue Earth City.....	15.00	
Cow, three years or over, F. A. Squiers, Blue Earth, City.....	20.00	15.00
Heifer, two years and under three, F. A. Squiers, Blue Earth City	15.00	10.00
Heifer, one year and under two, F. A. Squiers, Blue Earth City.....	15.00	10.00
Heifer calf, under one year and over four months, F. A. Squiers, Blue Earth City.	10.00	5.0

HERDS.

(Owned by exhibitors.)

Herd young cattle, to consist of one bull and four females under two years, by same bull, F. A. Squiers, Blue Earth City.....	35.00
Get of one sire, four females, under two years, F. A. Squiers, Blue Earth City.....	25.00

CLASS 32.—HERD SWEEPSTAKES, MILK BREEDS.

(Herd to consist of one bull, any age, and four females, one year or over.)

	1st Prem.	2d Prem.
Best herd of cattle owned in the state, E. F. Irwin, Richfield	\$100.00	
Best herd of cattle owned in the state, G. S. Bicknell, Minneapolis		\$50.00
Best herd of cattle owned in the state, F. O. Pillsbury Estate, Minneapolis	Third	25.00

CLASS 33.—FAT STEERS OR HEIFERS.

Fat steer or heifer, two years old, H. J. Fluck, Goodenow, Illinois	15.00
Fat steer or heifer, one year old, H. J. Fluck, Goodenow, Illinois	15.00

HERD.

Herd four or more fat steers or heifers, H. J. Fluck, Goodenow, Illinois	50.00
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Special.

Cosgrove Live Stock Co., Le Sueur, Minnesota, offer for best herd of fat steers, provided it be won by grade Herefords, one registered Hereford bull calf, and \$25 in gold extra, if the steers winning the premiums are by a bull bought of Cosgrove Live Stock Co.

No entries.

CLASS 34.—HERD GRAND SWEEPSTAKES, ANY BREED.

(Herd must consist of one bull and four females.)

Young herd (beef breed) under two years old, owned and bred by exhibitor, H. F. Brown, Minneapolis	100.00
Young herd (beef breed) under two years old, owned and bred by exhibitor, Cosgrove Live Stock Co., Le Sueur ..	50.00
Young herd (milk breed) under two years old, owned and bred by exhibitor, E. F. Irwin, Richfield	100.00
Young herd (milk breed) under two years old, owned and bred by exhibitor, F. O. Pillsbury estate, Minneapolis ..	50.00
Young herd (milk breed) under two years old, owned and bred by exhibitor, La Veta Jersey Cattle Co., Topeka, Kansas	Commended.
Get of one bull, four or more, any age or sex (beef breed) owned by exhibitor, Cosgrove Live Stock Co., Le Sueur ..	100.00
Get of one bull, four or more, any age or sex, (beef breed), owned by exhibitor, Thos. Clark, Beecher, Ill.	50.00
Get of one bull, owned by exhibitor, (milk breed), four or more, any age or sex, La Veta Jersey Cattle Co.	100.00
Get of one bull, owned by exhibitor, (milk breed), four or more, any age or sex, E. F. Irwin, Richfield	50.00
Get of one bull, owned by exhibitor, (milk breed), four or more, any age or sex, M. E. Moore, Cameron, Mo	Commended.

CLASS 35.—HERD SWEEPSTAKES, ANY BREED.

(Herd shall consist of one bull and four females, any age.)

Entrance Fee, 10 per cent. of First Money.

Herd of cattle, (beef breed), belonging to one individual or firm, any breed, H. F. Brown, Minneapolis	First \$250.00
Herd of Cattle, (beef breed), belonging to one individual or firm, Brookside Farm Co., Fort Wayne, Ind.	Second 150.00

Herd of cattle, (beef breed), belonging to one individual or firm, Thos. Clark, Beecher, Ill.....	Third	\$100.00
Herd of cattle, (beef breed), belonging to one individual or firm, G. W. Lyle, Monroe, Ia.....	Fourth	50.00
Herd of cattle, (milk breed), belonging to one individual or firm, La Veta Jersey Cattle Co., Topeka, Kansas.....	First	250.00
Herd of cattle (milk breed), belonging to one individual or firm, M. E. Moore, Cameron, Mo.....	Second	150.00
Herd of cattle (milk breed), belonging to one individual or firm, E. F. Irwin, Richfield.....	Third	100.00
Herd of cattle (milk breed), belonging to one individual or firm, F. C. Pillsbury estate, Minneapolis.....	Fourth	50.00

CLASS 36.—BEEF BREEDS, BY AGES.

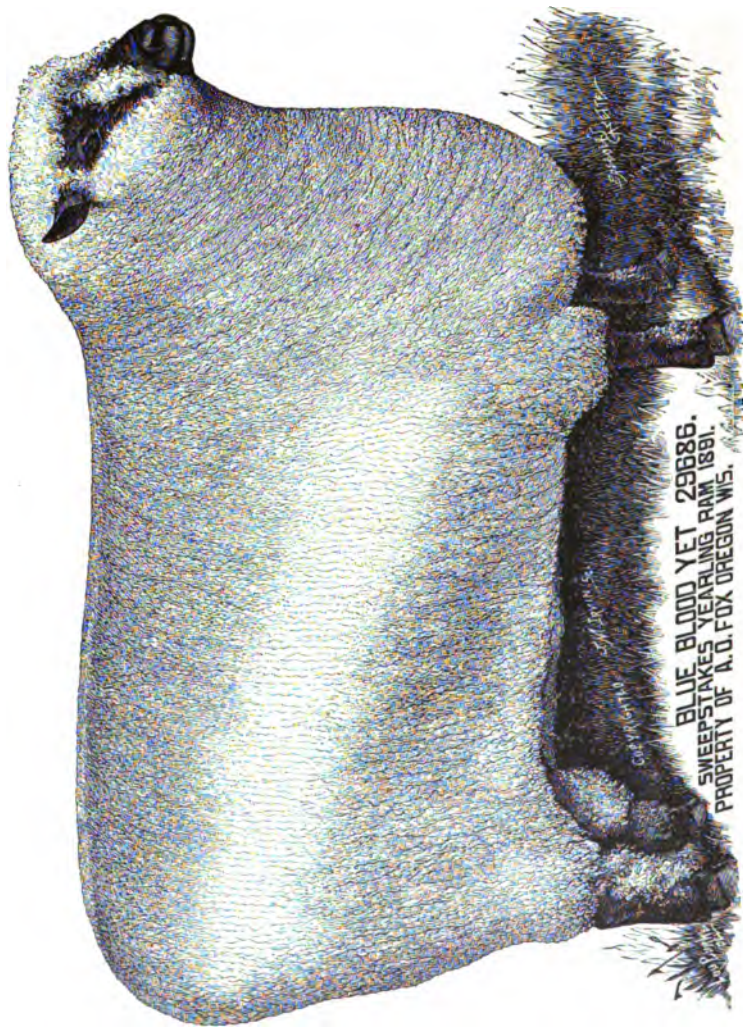
Entrance Fee, 10 per cent. of First Money.

	1st prem.	2d prem.
Bull, three years or over, H. F. Brown, Minneapolis.....	\$35.00	
Bull, three years or over, Brookside Farm Co., Ft. Wayne, Ind.....		\$15.00
Bull, two years and under three, Thos. Clark, Buchu, Ill.	35.00	
Bull, two years and under three, Cosgrove Live Stock Co., Le Sueur.....		15.00
Bull, one year and under two, H. F. Brown, Minneapolis.	35.00	
Bull, one year and under two, H. J. Fluck, Goodenow, Ill.		15.00
Bull calf, under one year and over four months, Brookside Farm Co., Ft. Wayne, Ind.....	35.00	
Bull calf, under one year and over four months, Cosgrove Live Stock Co., Le Sueur.....		15.00
Cow, three years or over, H. F. Brown, Minneapolis.....	35.00	
Cow, three years or over, Cosgrove Live Stock Co., Le Sueur.		15.00
Heifer, two years and under three, H. F. Brown, Mpls....	35.00	
Heifer, two years and under three, Thos. Clark, Beecher, Ill.....		15.00
Heifer, one year and under two, G. W. Lyle, Monroe, Ia..	35.00	
Heifer, one year and under two, H. F. Brown, Minneapolis.....		15.00
Heifer calf, under one year and over four months, H. F. Brown, Minneapolis..	35.00	
Heifer calf, under one year and over four months, Thos. Clark, Beecher, Ill.....		15.00

CLASS 37.—GRAND SWEEPSTAKES.

The following premiums will be given to Shorthorn, Hereford, Aberdeen, Galloway, Polled, Holstein, Jersey, Swiss, Dutch Belt and Guernsey:

Best male of any age, (each breed), Geo. S. Bicknell, Minneapolis.....	Diploma.
Best male of any age, Brookside Stock Farm, Ft. Wayne, Ind.....	Diploma.
Best male of any age, E. F. Irwin, Richfield.....	Diploma.
Best male of any age, Thos. Clark, Beecher, Ill....	Diploma.
Best male of any age, J. H. Gilfillan, Maquaketa, Ia...	Diploma.
Best male of any age, E. S. Hoppin, Dexter.....	Diploma.
Best male of any age, H. F. Brown, Minneapolis....	Diploma.
Best male of any age, La Veta Jersey Cattle Co., Topeka, Kansas.....	Diploma.
Best male of any age, F. A. Squires, Blue Earth City...	Diploma.
Best male of any age, Brookside Stock Farm, Ft. Wayne, Ind.....	Diploma.
Best female, of any age, E. F. Irwin, Richfield.....	Diploma.
Best female, of any age, F. C. Pillsbury Estate, Minneapolis.....	Diploma.
Best female, of any age, J. H. Gilfillan, Maquaketa, Ia.	Diploma.



"BLUE BLOOD YET," 29686, A. S. R. THE SWEEPSTAKES YEARLING SHROPSHIRE RAM OF 1891, WINNER OF FIRST PRIZE AT SHROPSHIRE AND WEST MIDLAND SHOW IN ENGLAND, 1891. ALSO FIRST PRIZE IN HIS CLASS EVERYWHERE EXHIBITED IN AMERICA. ALSO SWEEPSTAKES WINNER OVER ALL DOWN BREEDS AT MINNESOTA AND DAKOTA STATE FAIRS, 1891, AND WINNER OF SILVER MEDAL AT DAKOTA STATE FAIR, SIOUX FALLS, 1891, FOR BEST RAM ANY AGE OR BREED WITH FOUR EWES. SELECTED IN ENGLAND BY A. O. FOX TO STAND AT THE HEAD OF WOODSIDE FLOCK. PROPERTY OF A. O. FOX, OREGON, WIS.

Best female, of any age, E. S. Hoppin, Dexter.....	Diploma.
Best female, of any age, H. F. Brown, Minneapolis.....	Diploma.
Best female, of any age, La Veta Jersey Cattle Co., Topeka, Kansas.....	Diploma.
Best female, of any age, T. A. Squires, Blue Earth City.	Diploma.
Best female, of any age, Cosgrove Live Stock Co., Le Sueur.....	Diploma.

GRADE CATTLE.

(All Breeders of Pure Bred Cattle Barred.)

CLASS 38.—BEEF BREEDS.

Cow, three years or over, J. G. Bass, Hamline.....	1st. prem. 2d. prem.
	\$20.00

Sweepstakes.

No Entries.

CLASS 39.—DAIRY OR MILK BREEDS.

Cow, three years or over, H. E. Owen, Dexter.....	20.00	
Heifer, two years and under three, E. F. Irwin, Richfield.	15.00	\$10.00
Heifer, one year and under two, E. F. Irwin, Richfield...	10.00	5.00
Heifer calf, under one year and over four months, H. E. Owen, Dexter.....	8.00	

Sweepstakes.

Best four females, any age owned in state, E. F. Irwin, Richfield.....	35.00
Total.....	\$4,590.00

DIVISION C.—SHEEP.

J. H. LETSAN, ALEXANDRIA, SUPERINTENDENT.

Premiums awarded.....	\$936.00
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THOS. SHAW, } Judges.
JAMES SCOTT. }

CLASS 40.—MERINO.

	1st Prem.	2d Prem.
Ram, two years or over, J. H. Pitcher, Eagle, Wis.....	\$12.00	
Ram, two years or over, David Benedict, Woodworth, Wis		7.00
Ram, one year old, J. H. Pitcher, Eagle, Wis.....	12.00	
Ram, one year old, T. N. Porter, Rochester.....		7.00
Ram lamb, J. H. Pitcher, Eagle, Wis.	10.00	5.00
Ewe, two years or over, T. N. Porter, Rochester.....	10.00	5.00
Ewe, one year old, J. H. Pitcher, Eagle, Wis.	10.00	
Ewe, one year old, T. N. Porter, Rochester		5.00
Ewe lamb, J. H. Pitcher, Eagle, Wis.	8.00	
Ewe lamb, T. N. Porter, Rochester.....		4.00

Sweepstakes.

Ram, any age, J. H. Pitcher, Eagle, Wis.....	10.00
Ewe, any age, J. H. Pitcher, Eagle, Wis.....	10.00

CLASS 41.—COTSWOLD.

	1st prem. 2d prem.	
Ram, two years or over, Geo. Harding & Sons, Waukesha, Wis.....	\$12.00	\$7.00
Ram, one year old, Geo. Harding & Sons, Waukesha, Wis.....	12.00	7.00
Ram lamb, Geo. Harding & Sons, Waukesha, Wis.....	10.00	5.00
Ewe, two years or over, Geo. Harding & Sons, Waukesha, Wis.....	10.00	5.00
Ewe one year old, Geo. Harding & Sons, Waukesha, Wis..	10.00	5.00
Ewe lamb, Geo. Harding & Sons, Waukesha, Wis.....	8.00	4.00

Sweepstakes.

Ram, any age, Geo. Harding & Sons, Waukesha, Wis.	10.00
Ewe, any age, Geo. Harding & Sons, Waukesha, Wis.....	10.00

CLASS 42.—OXFORD DOWN.

Ram, two years or over, Geo. McKerrow, Sussex, Wis.....	12.00	7.00
Ram, one year old, Geo. McKerrow, Sussex, Wis.....	12.00	7.00
Ram lamb, Geo. McKerrow, Sussex, Wis.	10.00	5.00
Ewe, two years or over, Geo. McKerrow, Sussex, Wis.....	10.00	5.00
Ewe, one year old, Geo. McKerrow, Sussex, Wis.....	10.00	5.00
Ewe lamb, Geo. McKerrow, Sussex, Wis.....	8.00	4.00

Sweepstakes.

Ram, any age, Geo. McKerrow, Sussex, Wis.....	10.00
Ewe, any age, Geo. McKerrow, Sussex, Wis.....	10.00

CLASS 43.—LEICESTER AND LINCOLN.

Ram, two years or over, Geo. Harding & Sons, Waukesha, Wis.....	12.00	
Ram, two years or over, D. C. Graham, Cameron, Ill.		7.00
Ram, one year old, Geo. Harding & Sons, Waukesha, Wis.....	12.00	7.00
Ram lamb, Geo. Harding & Sons, Waukesha, Wis.	10.00	5.00
Ewe, two years or over, Geo. Harding & Sons, Waukesha, Wis.....	10.00	5.00
Ewe, one year old, Geo. Harding & Sons, Waukesha, Wis.....	10.00	5.00
Ewe, lamb, Geo. Harding & Sons, Waukesha, Wis.....	8.00	4.00

Sweepstakes.

Ram, any age, Geo. Harding & Sons, Waukesha, Wis.....	10.00
Ewe, any age, Geo. H. Harding & Sons, Waukesha, Wis..	10.00

CLASS 44.—SHROPSHIRE DOWN.

Ram, two years or over, A. O. Fox, Oregon, Wis.....	12.00	
Ram, two years or over, Geo. Allen & Son, Allerton, Ill..		7.00
Ram, one year old, Geo. Allen & Son, Allerton, Ill.....	12.00	7.00
Ram lamb, Geo. Allen & Son, Allerton, Ill.	10.00	
Ram lamb, A. O. Fox, Oregon, Wisconsin		5.00
Ewe, two years or over, Geo. Allen & Son, Allerton, Ill..	10.00	5.00
Ewe, one year old, Geo. Allen & Son, Allerton, Illinois...	10.00	
Ewe, one year old, A. O. Fox, Oregon, Wisconsin.		5.00
Ewe lamb, Geo. Allen & Son, Allerton, Illinois.....	8.00	4.00

Sweepstakes.

Ram, any age, Geo. Allen & Son, Allerton, Illinois.....	10.00
Ewe, any age, A. O. Fox, Oregon, Wisconsin.	10.00

CLASS 45.—SOUTHDOWN.

	1st prem.	2d prem.
Ram, two years or over, Geo. McKerrow, Sussex, Wis.	\$12.00	\$7.00
Ram, one year old, Geo. McKerrow, Sussex, Wis.	12.00	7.00
Ram lamb, Geo. McKerrow, Sussex, Wis.	10.00	5.00
Ewe, two years or over, Geo. McKerrow, Sussex, Wis.	10.00	5.00
Ewe, one year old, Geo. McKerrow, Sussex, Wis.	10.00	5.00
Ewe lamb, Geo. McKerrow, Sussex, Wis.	8.00	4.00

Sweepstakes.

Ram, any age, Geo. McKerrow, Sussex, Wis.	10.00
Ewe, any age, Geo. McKerrow, Sussex, Wis.	10.00

CLASS 46.—DORSET. (HORNED.)

Ram, two years or over, Fletcher Bros., Minneapolis.	12.00	
Ram, one year old, Fletcher Bros., Minneapolis.	12.00	
Ram lamb, Fletcher Bros., Minneapolis.	10.00	5.00
Ewe, two years or over, Fletcher Bros., Minneapolis.	10.00	5.00
Ewe, one year old, Fletcher Bros., Minneapolis.	10.00	
Ewe lamb, Fletcher Bros., Minneapolis.	8.00	4.00

Sweepstakes.

Ram, any age, Fletcher Bros., Minneapolis.	10.00
Ewe, any age, Fletcher Bros., Minneapolis.	10.00

CLASS 47.—SWEEPSTAKES.

(For Merino, Longwool and Medium, [each breed.])

Ram and five ewes, any age, Merino, owned and bred by exhibitor, J. H. Pitcher, Eagle, Wisconsin.	15.00	
Ram and five ewes, any age, Merino, owned and bred by exhibitor, T. N. Porter, Rochester.		10.00
Ram, five ewes, any age, longwool, owned and bred by exhibitor, G. Harding & Sons, Waukesha.	15.00	10.00
Ram, five ewes, any age, medium, owned and bred by exhibitor, A. O. Fox, Oregon, Wisconsin.	15.00	
Ram, five ewes, any age, medium, owned and bred by exhibitor, G. Allen & Son, Allerton, Illinois.		10.00
Ram and four of his get, one year old or under, Merino, bred and owned by exhibitor, J. H. Pitcher, Eagle, Wis.	15.00	
Ram and four of his get, one year old or under, Merino, bred and owned by exhibitor, T. N. Porter, Rochester.		10.00
Ram and four of his get, one year old or under, longwool, bred and owned by exhibitor, George Harding & Sons, Waukesha, Wisconsin.	15.00	10.00
Ram and four of his get, one year old or under, medium, bred and owned by exhibitor, A. O. Fox, Oregon, Wis.	15.00	
Ram and four of his get, one year old or under, medium, bred and owned by exhibitor, George Allen & Son, Allerton, Illinois.		10.00

CLASS 48.—CROSSES, (GRADES EXCLUDED).

No entries.

Total \$936.00

DIVISION D.—SWINE.

Premiums awarded..... \$845.00

J. H. LETSON, Alexandria, Superintendent.

P. D. BROOKWAY, Judge.

CLASS 49.—BERKSHIRE.

	1st Prem.	2d Prem.
Boar, two years or over, T. N. Porter, Rochester.....	\$15.00	
Boar, one year and under two, A. J. Lovejoy & Son, Roscoe, Ill.....	15.00	
Boar, six months and under one year, A. J. Lovejoy & Son, Roscoe, Ill.....	10.00	
Boar, six months and under one year, T. N. Porter, Rochester.....		\$5.00
Breeding sow, two years or over, A. J. Lovejoy & Son, Roscoe, Ill.....	15.00	
Breeding sow, two years or over, T. N. Porter, Rochester.....		10.00
Breeding sow, one year and under two, A. J. Lovejoy & Son, Roscoe, Ill.....	15.00	10.00
Sow pig, six months and under one year, T. N. Porter, Rochester.....	10.00	5.00
Herd to consist of one boar and four sows one year or over, A. J. Lovejoy & Son, Roscoe, Ill.....	25.00	
Herd to consist of one boar and four sows under one year, T. N. Porter, Rochester.....	20.00	
Herd to consist of one boar and four sows under one year, A. J. Lovejoy & Son, Roscoe, Ill.....		10.00

Special.

The American Berkshire Association offer the first ten volumes of the "American Berkshire Record" for the best recorded sow and litter of not less than five recorded pigs under six months old, owned and exhibited by a resident of Minnesota valued at \$50.00.

CONDITIONS. 1. That there shall be not less than three competitors.

2. That the competing animals be recorded in the "American Berkshire Record" prior to date of entry, with the secretary of Minnesota State Fair, and that list of such entries be furnished the secretary of this Association at the close of the Fair.

3. That a copy of these resolutions be printed in the Premium List of the Fair in connection with the classification of swine.

JNO. G. SPRINGER, Secy.

No entries.

CLASS 50.—SUFFOLK.

No entries.

CLASS 51.—POLAND CHINA.

	1st Prem.	2d Prem.
Boar, two years or over, C. E. Hancock, Chatfield.....	\$15.00	\$10.00
Boar, one year and under two, C. H. Murphy, Caledonia ..	15.00	
Boar, one year and under two, C. E. Hancock, Chatfield..		10.00
Boar, six months and under one year, C. E. Hancock, Chatfield.....	10.00	
Boar, six months and under one year, C. H. Murphy, Caledonia ..		5.00
Breeding sow, two years or over, C. E. Hancock, Chatfield	15.00	10.00
Breeding sow, one year and under two, C. E. Hancock, Chatfield.....	15.00	
Sow pig, six months and under one year, C. E. Hancock, Chatfield.....	10.00	5.00

	1st Prem.	2d Prem.
Herd, to consist of one boar and four sows, one year old or over, C. E. Hancock, Chatfield.....	\$25.00	
Herd, to consist of one boar and four sows, under one year old, C. E. Hancock, Chatfield.....	20.00	
Herd, to consist of one boar and four sows, under one year, C. H. Murphy, Caledonia.....		\$10.00

CLASS 52.—CHESTER WHITE.

Boar, two years or over, Fred Luchsinger, Woodbury.....	15.00	
Boar, one year and under two, Fred Luchsinger, Woodbury	15.00	10.00
Breeding sow, two years or over, Fred Luchsinger, Woodbury.....	15.00	10.00
Breeding sow, one year and under two, Fred Luchsinger, Woodbury.....	15.00	10.00
Sow pig, six months and under one year, Fred Luchsinger, Woodbury.....	10.00	
Herd to consist of one boar and four sows, one year old or over, Fred Luchsinger, Woodbury.....	25.00	
Herd to consist of one boar and four sows, under one year old, Fred Luchsinger, Woodbury.....	20.00	

CLASS 53.—JERSEY RED.

Boar, two years or over, C. A. Thomas, Monticello, Iowa..	15.00	
Boar, one year and under two, C. A. Thomas, Monticello, Iowa.....	15.00	10.00
Boar, six months old and under one year, C. A. Thomas, Monticello, Iowa.....	10.00	
Breeding sow, two years or over, C. A. Thomas, Monticello, Iowa.....	15.00	10.00
Breeding sow, one year and under two, C. A. Thomas, Monticello, Iowa.....	15.00	
Sow pig, six months and under one year, C. A. Thomas, Monticello, Iowa.....	10.00	
Herd to consist of one boar and four sows, one year or over, C. A. Thomas, Monticello, Iowa.....	25.00	
Herd to consist of one boar and four sows, under one year old, C. A. Thomas, Monticello, Iowa.....	20.00	

CLASS 54.—ESSEX.

Boar, one year and under two, C. H. Murphy, Caledonia..	15.00	
Boar, six months and under 1 yr., C. H. Murphy, Caledonia	10.00	
Breeding sow, one year and under two, C. H. Murphy, Caledonia.....	15.00	
Sow pig, six months and under one year, C. H. Murphy, Caledonia.....	10.00	

CLASS 55.—VICTORIA.

Boar, two years or over, Davis & Benedict, Woodworth, Wis.....	15.00	
Boar, one year and under two, Davis & Benedict, Woodworth, Wis.....	15.00	10.00
Boar, six months and under one year, Davis & Benedict, Woodworth, Wis.....	10.00	5.00
Breeding sow, two years or over, Davis & Benedict, Woodworth, Wis.....	15.00	10.00
Breeding sow, one year and under two, Davis & Benedict, Woodworth, Wis.....	15.00	10.00
Sow pig, six months and under one year, Davis & Benedict, Woodworth, Wis.....	10.00	5.00

	1st prem.	2d prem.
Herd to consist of one boar and four sows, one year or over, Davis & Benedict, Woodworth, Wis.	\$25.00	
Herd to consist of one boar and four sows, under one year, Davis & Benedict, Woodworth, Wis.	20.00	\$10.00

CLASS 56.—SMALL YORKSHIRE.

No awards.

Total \$845.00

DIVISION E.—POULTRY.

Premiums awarded \$396.00

(Under the auspices of the State Poultry Association.)

J. J. FURLONG, Austin, Superintendent.

LESLIE PARLIN, St. Paul, Manager.

G. D. HOLDEN, Judge.

CLASS 57.—DOMESTIC FOWLS.

Asiatic.

Brahmas, light, Franklin Benner, Minneapolis.....	\$1.00	
Brahmas, light, J. R. Brabazon, Delavin, Wis.....		\$2.00
Brahmas, dark, J. R. Brabazon, Delavin, Wis.....	2.00	
Brahmas, dark, chicks, J. R. Brabazon, Delavin, Wis.....	2.00	
Cochins, buff, Leslie Parlin, St. Paul.....	4.00	
Cochins, buff, J. R. Brabazon, Delavin, Wis.....		2.00
Cochins, buff, chicks, Leslie Parlin, St. Paul.....	4.00	2.00
Cochins, partridge, Joseph H. Prior, Minneapolis.....	4.00	
Cochins, partridge, J. R. Brabazon, Delavin, Wis.....		2.00
Cochins, partridge, chicks, J. R. Brabazon, Delavin, Wis.....		2.00
Cochins, white, J. R. Brabazon, Delavin, Wis.....	2.00	
Cochins, white, chicks, J. R. Brabazon, Delavin, Wis.....	2.00	
Cochins, black, J. R. Brabazon, Delavin, Wis.....	2.00	
Cochins, black, chicks, J. R. Brabazon, Delavin, Wis.....	2.00	
Langshaus, Bott & Shiffman, St. Paul.....	3.00	
Langshaus, J. R. Brabazon, Delavin, Wis.....		1.50
Langshaus, chicks, J. R. Brabazon, Delavin, Wis.....	3.00	
Langshaus, chicks, Bott & Shiffman, St. Paul.....		1.50

American.

Plymouth Rocks, barred, F. W. Smith, Minneapolis.....	4.00	
Plymouth Rocks, barred, J. R. Brabazon, Delavin, Wis....		2.00
Plymouth Rocks, barred, chicks, N. S. Beardsley, St. Paul	4.00	2.00
Plymouth Rocks, white, chicks, J. R. Brabazon, Delavin,		
Wis.....	3.00	
Wyandottes, silver gates poultry yards, St. Paul.....	4.00	
Wyandottes, silver, J. R. Brabazon, Delavin, Wis.....		2.00
Wyandottes, silver, chicks, Joseph Hall, Red Wing.....	4.00	2.00
Wyandottes, golden, Theo. L. Morgan, St. Paul.....	4.00	
Wyandottes, golden, J. R. Brabazon, Delavin, Wis.....		2.00
Wyandottes, golden, chicks, Theo. L. Morgan, St. Paul...	4.00	2.00
Wyandottes, white, J. R. Brabazon, Delavin, Wis.....	3.00	
Wyandottes, white, Gates' Poultry Yards, St. Paul.....		1.50

	1st Prem.	2d Prem.
Wyandottes, white, chicks, C. E. Hancock, Chatfield....	\$3.00	
Javas, black, J. R. Brabazon, Delevan, Wis.....	3.00	
Dominiques, American, J. R. Brabazon, Delevan, Wis. ..	2.00	
Dominiques, American, C. E. Hancock, Chatfield		\$1.00
Dominiques, American, chicks, C. E. Hancock, Chatfield.	2.00	
Dominiques, American, chicks, J. R. Brabazon, Delevan, Wisconsin.....		1.00

Spanish.

Leghorns, black, chicks, J. R. Brabazon, Delevan, Wis. ..	3.00	
Leghorns, R. C. white, J. R. Brabazon, Delevan, Wis.....	3.00	
Leghorns, R. C. white, J. F. Hulster, St. Paul.....		1.50
Leghorns, R. C. white, chicks, J. R. Brabazon, Delevan, Wisconsin	3.00	
Leghorns, brown, chicks, J. R. Brabazon, Delevan, Wis..	4.00	
Leghorns, R. C. brown, B. S. Griffin, St. Paul.....		1.00
Leghorns, R. C. brown, chicks, B. S. Griffin, St. Paul.....	2.00	1.00
Andalusians, chicks, F. W. Judson, Farmington... ..	2.00	
Minorcas, black, J. R. Brabazon, Delevan, Wis.....	2.00	
Minorcas, black, chicks, J. R. Brabazon, Delevan, Wis....	2.00	
Red Caps, J. R. Brabazon, Delevan, Wis.....	2.00	
Red Caps, chicks, J. R. Brabazon, Delevan, Wis.....	2.00	
Red Caps, chicks, Bott & Schiffman, St. Paul.....		1.00

Hamburg.

Spangled, silver, J. R. Brabazon, Delevan, Wis.....	3.00	
Spangled, silver, chicks, J. R. Brabazon, Delevan, Wis...	3.00	
Penciled, silver, J. R. Brabazon, Delevan, Wis.....	2.00	
Black, chicks, J. R. Brabazon, Delevan, Wis....	2.00	

Polish.

Black, white crested, J. R. Brabazon, Delevan, Wis.....	3.00	
Black, white crested, chicks, J. R. Brabazon, Delevan, Wis.....	3.00	1.50
Silver, J. R. Brabazon, Delevan, Wis.....	2.00	
Silver bearded, J. R. Brabazon, Delevan, Wis.....	2.00	
Silver bearded, chicks, J. R. Brabazon, Delevan, Wis....	2.00	

Dorking.

Silver gray, J. R. Brabazon, Delevan, Wis.....	2.00	
Silver gray, chicks, J. R. Brabazon, Delevan, Wis.....	2.00	

French.

Houdans, J. R. Brabazon, Delevan, Wis.....	3.00	
Houdans, chicks, J. R. Brabazon, Delevan, Wis.....	3.00	
Best breeding pen, No. 1 (for fowls only), one male and four females, Franklin Benner, Minneapolis.....	5.00	
Best breeding pen, No. 1, (for fowls only), one male and four females, T. L. Morgan, St. Paul		3.00
Best breeding pen, No. 3, (for fowls only), one male and four females, Henry Perkins, St. Paul.....	5.00	3.00
Best breeding pens, No. 8, (for fowls only), one male and four females, N. S. Beardsley, St. Paul.....	5.00	
Best breeding pens, No. 11, (for fowls only), one male and four females, T. L. Morgan, St. Paul	5.00	
Best breeding pens, No. 17, (for fowls only), one male and four females, Franklin Benner, Minneapolis.....	5.00	3.00
Best breeding pens, No. 20, (for fowls only), one male and four females, Franklin Benner, Minneapolis.....	5.00	

CLASS 58.—GAME FOWLS.

<i>Game.</i>	1st prem.	2d prem.
Indian, A. A. Fields, Cedar Falls, Iowa	\$3.00	
Indian, James H. Pryor, Minneapolis.....		\$1.50
Indian, chicks, A. A. Fields, Cedar Falls, Iowa.....	3.00	1.50
Red, black breasted, H. H. Koner, Owatonna.....	3.00	
Red, black breasted, J. R. Brabazon, Delevan, Wisconsin.		1.50
Red, black breasted, chicks, H. H. Koner, Owatonna.....	3.00	1.50
Duckwing, yellow, J. R. Brabazon, Delevan, Wis.....		1.00
Duckwing, yellow, chicks, J. R. Brabazon, Delevan, Wis.		1.00
Pit, chicks, J. R. Brabazon, Delevan, Wisconsin.....		1.00

Game Bantams.

Duckwing, H. H. Koner, Owatonna.....	2.00	1.00
Duckwing, chicks, J. R. Brabazon, Delevan, Wis.....	2.00	
Red, black breasted, H. H. Koner, Owatonna	2.00	
Red, black breasted, J. R. Brabazon, Delevan, Wis.....		1.00
Red, black breasted, chicks, A. A. Fields, Cedar Falls, Ia.	2.00	
Red, black breasted, chicks, J. R. Brabazon, Delevan, Wis		1.00

BANTAMS, OTHER THAN GAME.

Seabright, golden, J. R. Brabazon, Delevan, Wis.....	2.00	
Seabright, golden, chicks, J. R. Brabazon, Delevan, Wis...	2.00	
Pekin, Leslie Parlin, St. Paul	2.00	
Pekin, Franklin Benner, Minneapolis.....		1.00
Pekin, chicks, Leslie Parlin St. Paul.....	2.00	1.00
Black, rose combed, J. R. Brabazon, Delevan, Wis.....	2.00	
Black, rose combed, H. F. Hulster, St. Paul		1.00
Black, rose combed, chicks, J. R. Brabazon, Delevan, Wis.	2.00	
Black, rose combed, chicks, A. A. Fields, Cedar Falls, Iowa.		1.00

CLASS 59.—TURKEYS, DUCKS AND GESE.

Turkeys.

Bronze, Gates poultry yards, St. Paul.....	4.00	
Bronze, J. R. Brabazon, Delevan, Wis.....		2.00
Bronze, Chicks, J. R. Brabazon, Delevan, Wis.....	4.00	
Bronze, chicks, Gates poultry yards, St. Paul.....		2.00
Holland, white, J. R. Brabazon, Delevan, Wis.....	3.00	
Holland, white, chicks, J. R. Brabazon, Delevan, Wis...	3.00	
Wild, J. R. Brabazon, Delevan, Wis	2.00	
Wild, Thos. L. Morgan, St. Paul.....		1.00

Ducks.

Aylesbury, J. R. Brabazon, Delevan, Wis.....	2.00	
Aylesbury, chicks, J. R. Brabazon, Delevan, Wis.....	2.00	
Pekin, J. R. Brabazon, Delevan, Wis	3.00	
Pekin, B. S. Griffin, St. Paul.....		1.50
Pekin, chicks, B. S. Griffin, St. Paul.....	3.00	
Pekin, chicks, J. R. Brabazon, Delevan, Wis.....		1.50
Rouen, C. A. Fields, Cedar Falls, Iowa.....	2.00	
Rouen, J. R. Brabazon, Delevan, Wis.....		1.00
Rouen, chicks, J. R. Brabazon, Delevan, Wis.....	2.00	
Muscovy, white, J. R. Brabazon, Delevan, Wis	2.00	
Muscovy, colored, J. R. Brabazon, Delevan, Wis.....	2.00	
Muscovy, colored, chicks, J. R. Brabazon, Delevan, Wis..	2.00	

Geese.

Embsen, J. R. Brabazon, Delevan, Wis.....	3.00	
Embsen, chicks, J. R. Brabazon, Delevan, Wis.....	3.00	
Toulouse, J. R. Brabazon, Delevan, Wis.....	3.00	
Toulouse, Thos. L. Morgan, St. Paul.....		1.50

	1st prem.	2d prem.
Toulouse, chicks, J. R. Brabazon, Delevan, Wis.....	\$3.00	
Toulouse, chicks, Thos. L. Morgan, St. Paul.....		\$1.50
China, white, J. R. Brabazon, Delevan, Wis.....	3.00	
China, white, Thos. L. Morgan, St. Paul.....		1.50
China, white, chicks, J. R. Brabazon, Delevan, Wis.....	3.00	
China, brown, Thos. L. Morgan, St. Paul.....	3.00	1.50
China, brown, chicks, J. R. Brabazon, Delevan, Wis.....	3.00	
Wild, Thos. L. Morgan, St. Paul.....	3.00	1.50
Wild, chicks, Thos. L. Morgan, St. Paul.....	3.00	

CLASS 60.—ORNAMENTAL AND PET STOCK.

Pearl Guineas, J. R. Brabazon, Delevan, Wis.....	2.00	1.00
Pea Fowls, J. R. Brabazon, Delevan, Wis.....	2.00	

CLASS 61.—SWEEPSTAKES.

Special County Exhibit.

NOTE.—Birds entered in this class cannot compete as single birds and birds entered singly cannot compete in county exhibit.

Best county (outside Hennepin and Ramsey) exhibit of poultry, Washington Co. exhibit, St. Paul.....	50.00
Best brooder in operation, Leslie Parlin, St. Paul.....	5.00

Special Premiums.

Pratt Food Company, 130 Walnut street, Philadelphia, awarded the following special premiums to the best pairs on exhibition and owned in the State of Minnesota:

F. W. Smith, Minneapolis, best pair Barred Plymouth Rocks.....	
Franklin Benner, Minneapolis, best pair Light Brahamas.....	
Leslie Parlin, St. Paul, best pair Buff Cochins.....	
H. H. Krier, Owatonna, best pair Duckwing Game.....	
Gates Poultry Yards, St. Paul, best pair Bronze Turkeys.....	
Total.....	\$391.00

DIVISION F.

Premiums awarded.....	\$436.20
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To aid committee in determining the real as well as the relative merits of samples, the following scale of points will be observed:

BUTTER.

Flavor.....	50
Grain.....	25
Color.....	15
Salting.....	10
Total.....	100

CHEESE.

Flavor.....	40
Texture.....	25
Style.....	10
Color.....	15
Salting.....	10
Total.....	100

SCORE TABLE NO. 1.—BUTTER.

Exhibitor.	Residence.	Maker of product	Entry No.	Class.	Flavor.	Color.	Saline.	Total pts.	Creamery or dily	Amt. of cream.	Premium.	Remarks.
B. F. Woodman	Northfield ..	U. T. Patton	87	62	150	25	15	100	Cr'm'y	88.35	..	Butter exhibited, Class 62, Lot 1, 60 lb. tub creamery butter, \$100; divided pro rata among entries scoring above 85 points.
Madellia Butter Co.	Madellia	E. J. Sanderson	22	62	150	25	14	98	"	8.15	..	
D. M. Richards	Glenville	D. M. Richards	55	62	148	25	14	95	"	7.90	..	
D. A. Palmer	Zumbrota	D. A. Palmer	59	62	148	25	15	94	"	7.85	..	
Danielson Creamery Co.	Grove City	O. H. Schack	7	62	147	23	14	93	"	7.75	..	
Clark's Grove Cr'm'y Co.	Clark's Grove	L. P. Larson	8	62	143	24	15	10	92	7.65	..	
Golden Rule Cr'm'y Co.	Watsona	Willis I. Noves	23	62	148	23	12	9	92	7.60	..	
Clinch Falls Cr'm'y Co.	Clinch Falls	Frank Mandell	40	62	145	23	14	9	91	7.60	..	
Whitcomb Creamery Co.	Walcott	G. F. Ustis	38	62	147	22	14	9	91	7.60	..	
W. T. Twentyman	Rochester	W. Twentyman	61	62	148	22	14	9	91	7.40	..	
G. J. Twentyman	Wells	G. Iverson	1	62	143	23	13	8	89	7.35	..	Society Special Sweepstakes \$40, to be divided equally to entries scoring the highest in its class. Lots 1, 4, 7, 9. *Gold medal +Silver medal
J. A. Sinclair Creamery Co.	Fremont	A. W. Glass	75	62	181	23	13	8	88	7.15	..	
J. Farrell	St. Paul	J. Farrell	53	62	142	20	13	8	86	..	..
D. D. Danielson	Dundas	D. D. Danielson	19	62	142	20	14	8	85	..	..
Simon Brown	Wabashaw	Simon Brown	36	62	143	20	14	8	85	..	..
Rock Dell	Manchester	P. H. Kiefer	45	62	142	15	13	10	83	..	..
Chas. F. Meyer	Manchester	Chas. F. Meyer	43	62	142	15	13	10	83	..	..
A. E. Comstock	Anna City	A. E. Comstock	32	62	130	15	10	8	86	..	..
U. T. Patton	Northfield	U. T. Patton	62	150	23	15	10	100	"	10.00	..	
S. Leslie	Waseca	S. Leslie	62	450	23	15	9	90	D 40lbs	10.00	..	
B. F. Woodman	Waseca	B. F. Woodman	62	745	23	14	9	90	D prnt	10.00	..	
S. Leslie	St. Paul	[Best display]	62	8	Society *Gold medal +Silver medal
Crescent City Creamery Co.	Northfield	U. T. Patton	62	1	..	..	..	..	..	..	..
B. F. Woodman	Minneapolis	Mrs. M. Holmes	62	1	..	..	..	..	..	..	..
+Fotter Lucas	

*To the maker of 1st premium butter, Class 62, Lot 1, gold medal.

+To the maker of the best fancy shapes in butter, silver medal.

J. H. HULSIEK,
E. D. ARUNDEL, } Judges.
H. A. HOLMES, Referee Judge.

SCORE TABLE NO. 2.—BUTTER.

Exhibitor.	Residence.	Maker of product.	Entry No.	Class.	Flavor.	Grain.	Color.	Salting.	Total pts.	Or'm'y or d'ry.	Amt. of prem. num.	Premium.	Remarks.
Biscay Creamery Co....	Biscay.....	Charles Ray.....	17,62	2,46	22	14	9	91	Or'm'y	.....	.....	1	If salted with Genesee salt, 24 pounds—value \$25.00.
Clinton Falls Creamery Co.	Clinton Falls.....	Frank Mandell....	42,62	9,49	23	15	8	96	"	.....	\$35.00	1	If salted with Ashton's salt, Ashton Salt Co.
Walcott Creamery Co....	Walcott.....	G. F. Eustis.....	30,62	9,48	23	15	8	94	"	.....	.....	1	If salted with Ashton's salt, Ashton Salt Co.
D. D. Donaldson.....	Dundas.....	D. D. Donaldson....	20,62	9,48	23	15	8	94	"	.....	.....	1	If salted with Ashton's salt, Ashton Salt Co.
D. A. Palmer.....	Zumbrota.....	D. A. Palmer.....	50,62	9,43	22	12	8	85	"	.....	.....	1	If salted with Ashton's salt, Ashton Salt Co.
D. A. Palmer.....	Zumbrota.....	D. A. Palmer.....	60,62	9,43	22	12	8	85	"	.....	.....	1	If salted with Ashton's salt, Ashton Salt Co.
Charles Meyer.....	Manchester.....	Charles Meyer.....	44,62	9,40	22	13	7	82	"	.....	.....	1	If salted with Ashton's salt, Ashton Salt Co.
St. Paul.....	St. Paul.....	J. Farrell.....	64,62	9,42	18	14	6	80	"	.....	.....	1	If salted with Ashton's salt, Ashton Salt Co.
S. Leslie.....	Waseca.....	S. Leslie.....	40,62	9,49	22	15	9	95	Dairy	.....	40,63	1	Pro rata premium, \$75.00; minimum points, 80.
Rhy's Evans.....	Muskoda.....	Mrs. R. J. Evans....	9,62	9,38	22	14	9	83	D.pr't.	.....	34,97	2	Pro rata premium, \$75.00; minimum points, 80.
S. Leslie.....	Waseca.....	S. Leslie.....	32,62	7,43	22	14	9	90	"	.....	18,26	1	Roll print dairy, pro rata, \$50.00.
J. G. Bass.....	Hamlin.....	J. G. Bass.....	48,62	7,44	22	12	9	87	"	.....	17,60	2	Roll print dairy, pro rata, \$50.00.
Hick House Dairy Farm...	Detroit.....	Resell Billings....	50,62	7,40	15	10	5	70	"	.....	14,73	3	Roll print dairy, pro rata, \$50.00.
S. Leslie.....	Waseca.....	S. Leslie.....	50,62	5,45	20	15	10	90	Dairy	.....	7,50	1	Special premium, 10 54-lb. sacks Genesee salt, value \$7.50.
R. J. Evans.....	Muskoda.....	Mrs. R. J. Evans....	10,62	5,40	18	12	8	73	"	.....	Val	.....	Special premium, Cornish and Green all dairy butter scoring 85 print, each sack dairy salt.
R. J. Evans.....	Muskoda.....	Mrs. R. J. Evans....	14,62	12,40	25	14	9	88	"	.....	20,00	1	Spec. given by Cornish, Curtis & Green, best tub butter from gathered cream—100 lbs. is colored with Thatchers orange color and is 1 1/2 with Warsaw high grade salt.
Zumbro Creamery.....	Rock Dell.....	P. H. Kieffer.....	46,62	10,48	20	15	10	93	Or'm'y	.....	.....	1	Granulated butter, display in glass.
Oreacent Creamery Co....	St. Paul.....	Oreacent City.....	65,62	8	.....	.....	.....	.....	"	.....	5,00	1	Granulated butter, display in glass.
A. E. Comstock.....	Alma City.....	A. E. Comstock....	30,62	8	.....	.....	.....	.....	"	.....	3,00	1	Granulated butter, display in glass.
S. Leslie.....	Waseca.....	S. Leslie.....	40,62	6,40	22	15	9	86	Dairy	.....	.....	1	C. N. Somdysyn, agent for Washington Butter Color, special premiums.
S. Leslie.....	Waseca.....	S. Leslie.....	52,62	7,45	22	14	9	90	"	.....	.....	1	dozen 50-cent Bottles color.
J. G. Bass.....	Hamlin.....	J. G. Bass.....	48,62	7,44	22	12	9	87	"	.....	.....	2	15 50-cent bottles color.
R. J. Evans.....	Muskoda.....	Mrs. R. J. Evans....	9,62	7,43	22	14	9	87	"	.....	.....	3	12 25-cent bottles color.
Black House Farm.....	Detroit.....	Bessie L. Billings..	67,62	7,38	17	13	5	70	"	.....	.....	4	16 25-cent bottles color.
R. F. Woodman.....	Northfield.....	C. T. Patton.....	67,62	7,40	22	15	9	87	"	.....	.....	5	14 25-cent bottles color.
Madella Butter Co.....	Madella.....	E. J. Sanderson....	22,62	3,50	25	15	10	100	Or'm'y	.....	.....	1	12 50-cent bottles Washington Butter color.
D. M. Richards.....	Glenville.....	D. M. Richards....	55,62	3,48	25	14	9	86	"	.....	.....	2	9 50-cent bottles Washington Butter color.
D. A. Palmer.....	Zumbrota.....	D. A. Palmer.....	50,62	3,48	25	14	9	86	"	.....	.....	3	12 25-cent bottles Washington Butter color.
Danielson Creamery Co..	Grove City.....	C. H. Schack.....	7,62	3,47	23	14	9	89	"	.....	.....	4	16 25-cent bottles Washington Butter color.

J. H. HULSIK
R. D. ARUNDELL, } Judges.
H. A. HOLMES, Referee Judge.

TABLE 1.

Average Composition of Total Solids in the Milk of the Different Breeds.

HERD.	POUNDS PER HUNDRED OF			
	Fat.	Caseln.	Sugar.	Ash.
Ayrshire.....	29.1	27.4	38.1	5.4
Guernsey.....	34.7	27.1	33.2	5.2
Holstein-Friesian...	29.1	27.1	38.7	5.2
Jersey.....	33.3	27.6	33.8	5.2
Northhorn.....	29.3	26.3	38.6	5.3

TABLE 2.

Amount of Food Consumed, its Cost, and Milk Produced by Different Herds from May 1st, 1889, to October 31st, 1890.

HERD.	Total No. of days under experiment.	Number of days milking.	Total yield of milk in pounds.	TOTAL AMOUNT OF FOOD CONSUMED.											Total cost of food.
				Hay.	Wheat bran	Corn and oat meal.	Cotton-seed meal.	Linseed meal.	Dried brewers grains.	Corn stalks.	Green fodder.	Ensilage corn.	Roots.	Pasture.	
Ayrshires.....	1,510	1,350	29,845.0	lbs. 8,459	lbs. 5,790½	lbs. 5,400½	lbs. 555	lbs. 250	lbs. 1,319½	lbs. 1,146	lbs. 33,260	lbs. 1,670	lbs. 703	hours 813	\$ 296.71
Guernseys.....	1,569	1,517	29,785.3	8,269	6,616	5,052½	598	132	1,680	1,270	33,685	1,380	1,296	613	232.63
Holstein-Friesians.....	1,045	869	25,365.5	10,623	6,086	4,025	433	45	1,285	1,150	18,620	1,320	1,482	341	202.12
Jerseys.....	1,251	1,116	23,084.7	8,514	6,090	4,748	273	52	863	1,225	21,970	1,475	1,120	406	201.99
Northhorns.....	1,094	1,324	31,370.0	9,254	6,684	6,328	352	4	1,779	1,215	35,428	1,365	932	693	247.76

*This includes 144 lbs. gluten meal and 80 lbs. oil meal.

TABLE 4.
Average Percentage of Total Solids Fat, and Solids not Fat, in the Milk of the Different Herds for Eleven Months from December 1st, 1889, to October 31st, 1890, Inclusive.

MONTHS.	AYRSHIRE.			GUERNSEY.			HOLSTEIN-FRIESIAN.			JERSEY.			SHORTHORN.		
	Average percentage of			Average percentage of			Average percentage of			Average percentage of			Average percentage of		
	Total solids.	Fat.	Solids not fat.	Total solids.	Fat.	Solids not fat.	Total solids.	Fat.	Solids not fat.	Total solids.	Fat.	Solids not fat.	Total solids.	Fat.	Solids not fat.
1889-December.....	12.53	3.61	8.94	14.64	5.11	9.53	12.26	3.64	8.62	14.72	5.02	9.70	12.85	3.81	9.04
1890-January.....	12.88	3.81	9.07	15.29	5.49	9.80	12.26	3.68	8.58	15.19	5.23	9.96	13.44	4.23	9.18
February.....	12.76	3.75	9.01	15.15	5.32	9.83	12.41	3.73	8.68	15.29	5.31	9.98	13.74	4.45	9.29
March.....	13.00	3.95	9.05	15.29	5.46	9.83	12.46	3.80	8.67	14.99	5.36	9.63	13.99	4.69	9.30
April.....	13.09	3.85	9.24	14.95	5.20	9.75	12.39	3.84	8.55	14.83	5.32	9.51	12.76	3.89	8.87
May.....	12.97	3.54	9.43	14.00	4.57	9.43	12.57	3.65	8.92	13.67	4.30	9.37	12.05	3.24	8.81
June.....	12.53	3.42	9.16	13.86	4.55	9.31	12.99	3.73	9.26	13.42	4.08	9.34	11.97	3.23	8.74
July.....	12.72	3.71	9.01	13.85	4.54	9.31	11.44	3.11	8.33	13.46	4.13	9.33	11.89	3.23	8.61
August.....	13.08	4.07	9.01	13.93	4.81	9.12	11.38	3.05	8.33	13.60	4.22	9.38	12.08	3.56	8.52
September.....	11.85	3.26	8.59	13.93	5.22	9.45	11.67	3.23	8.44	15.00	5.08	9.92	12.24	3.47	8.77
October.....	12.27	3.60	8.67	15.28	5.78	9.50	12.08	3.65	8.53	15.75	5.71	10.04	12.61	3.62	8.79
Average.....	12.71	3.69	9.02	14.62	5.09	9.53	12.17	3.55	8.62	14.64	4.99	9.65	12.69	3.79	8.90

TABLE 4.
Average Composition (Analysis) of Milk for Eight Months.

HERD.	Specific gravity.	PERCENTAGE OF					
		Water.	Total solids.	Fat.	Casein.	Sugar.	Ash.
Ayrshire.....	1.0341	87.30	12.70	3.68	3.48	4.84	0.69
Guernsey.....	1.0350	85.52	14.48	5.02	3.92	4.80	0.75
Holstein-Friesian.....	1.0328	87.83	12.12	3.51	3.28	4.69	0.64
Jersey.....	1.0353	85.66	14.34	4.78	3.06	4.85	0.75
Shorthorn.....	1.0339	87.55	12.45	3.65	3.27	4.80	0.73

TABLE 5.
Average Cost of Food per Quart of Milk.

HERD.	Total No. of days under experiment.	Total yield of milk.		Average daily yield of milk.		Cost of food.		Average cost of food per quart milk.
		Lbs.	Quarts	Lbs.	Quarts	Total.	Average per day.	
Ayrshire.....	1,510	29,845	13,566	19.76	9.0	\$226.71	cts. 15.0	1.66
Guernsey.....	1,559	29,785	13,539	19.10	8.7	232.63	14.9	1.71
Holstein-Friesian.....	1,045	25,366	11,530	24.27	11.0	202.12	19.3	1.75
Jersey.....	1,251	23,085	10,493	18.45	8.4	201.99	16.1	1.91
Shorthorn.....	1,604	31,370	14,259	19.56	9.0	247.76	15.4	1.71

TABLE 6.
Average Cost of Food per Pound of Total Solids.

HERD.	Total No. of days under experiment.	Yield of milk in pounds.		Av'ge per ct. of total solids	Amt. of total solids produced in pounds.		Cost of food.		Av'ge cost of food per lb. of total solids.
		Total.	Avr'ge daily.		Total.	Avr'ge daily.	Total.	Avr'ge daily.	
Ayrshire.	1,510	29,845	19.76	12.71	3,793.3	251	\$226.71	cts. 15.0	9.9
Guernsey	1,559	29,785	19.10	14.62	4,354.6	279	232.63	14.9	9.9
Holstein-Friesian..	1,045	25,366	24.27	12.17	3,087.0	95	202.12	19.3	9.9
Jersey	1,251	23,085	18.45	14.54	3,356.5	68	201.99	16.1	9.0
Shorthorn.	1,604	31,370	19.56	12.69	3,989.9	48	247.76	15.4	9.0

TABLE 7.
Average Cost of Food per Pound of Fat.

HERD.	Total No. of days under experiment.	Yield of milk in pounds.		Average per cent. of fat.	Amt. of fat produced in pounds.		Cost of food.		Average cost of food per lb. of fat.
		Total.	Avr'ge daily.		Total.	Avr'ge daily.	Total.	Avr'ge daily.	
Ayrshire.....	1,510	29,845	19.76	3.69	1,101.3	0.73	\$226.71	cts. 15.0	cts. 20.6
Guernsey.....	1,559	29,785	19.10	5.09	1,516.0	0.97	232.63	14.9	15.3
Holstein-Friesian.....	1,045	25,366	24.27	3.55	900.5	0.86	202.12	19.3	23.4
Jersey.....	1,251	23,085	18.45	4.89	1,128.8	0.90	201.99	16.1	17.9
Shorthorn.....	1,604	31,370	19.56	3.79	1,188.9	0.74	247.76	15.4	18.0

Studied under the conditions which now largely rule in the sale of the distinct dairy products, milk and butter, and which must define the present methods of comparison of breeds from the commercial standpoint, the results show that all the breeds do not present the same points of comparison, but are divided into distinct classes, one milk, the other butter. In the milk class the average cost of a quart of milk is less than in the butter class, and in the butter class the average cost of a pound of butter is less than in the milk class.

DIVISION G.—HONEY, BEES AND APIARIAN SUPPLIES.

Premiums awarded, \$277.00.

J. P. WEST, Hastings, Superintendent.

B. TAYLOR,	} Judges.
W. J. TINGLEY,	
L. E. DAY,	

CLASS 64.—HONEY.

	1st prem.	2d prem.
Most attractive display of comb honey, N. P. Aspinwall, Harrison	\$15.00	
Most attractive display of comb honey, John Turnbull, La Crescent.....		\$10.00
Most attractive display of comb honey, R. Knapheide, St. Paul.....	Third	8.00
Most attractive display of extracted honey, J. M. Dondua, Alexandria.....	15.00	
Most attractive display of extracted honey, William Urie, Minneapolis.....		10.00
Most attractive display of extracted honey, Cyrus C. Aldrich, Morristown.....	Third	8.00
Display of twenty pounds comb honey, quality and manner of putting up for market considered, N. P. Aspinwall, Harrison.....	9.00	
Display of twenty pounds comb honey, quality and manner of putting up for market considered, J. M. Dondua, Alexandria.....		6.00
Display of twenty pounds comb honey, quality and manner of putting up for market considered, J. G. Bass, Hamline.....	Third	4.00
Display twenty-five pounds extracted honey, quality and manner of putting up for market considered, J. M. Dondua, Alexandria.....	9.00	
Display twenty-five pounds extracted honey, quality and manner of putting up for market considered, Wm. Urie, Minneapolis.....		6.00
Display twenty-five pounds extracted honey, quality and manner of putting up for market considered, Cyrus C. Aldrich, Morristown.....	Third	4.00

CLASS 65.—BEES, SUPPLIES, ETC.

Single nucleus of Italian bees, Wm. Urie, Minneapolis...	7.00	
Single nucleus of Italian bees, John Trumbull, La Crescent		5.00
Single nucleus of Black bees, Cyrus C. Aldrich, Morristown	7.00	
Single nucleus of Black bees, Wm. Urie, Minneapolis...		5.00
Single nucleus of Carniolan bees, Wm. H. Bright, Mazeppa	7.00	
Collection of queens of different races, Wm. H. Bright, Mazeppa.....	12.00	
Collection of queens of different races, Wm. Urie, Minneapolis.....		8.00
Most attractive display of beeswax, J. M. Dondua, Alexandria.....	7.00	
Most attractive display of beeswax, Wm. Urie, Minneapolis		5.00
Specimen of beeswax, not less than ten pounds, soft, bright, yellow wax to have preference, J. M. Dondua, Alexandria	6.00	
Specimen of beeswax, not less than ten pounds, soft, bright, yellow wax to have preference, N. P. Aspinwall, Harrison		3.00
Honey Vinegar, not less than one gallon, shown in glass, C. C. Aldrich, Morristown	5.00	
Honey Vinegar, not less than one gallon, shown in glass, Mrs. N. J. Leavitt, Minneapolis		3.00

	1st prem.	2d prem.
Display of Apian supplies and implements, O. C. Aldrich, Morristown.....	\$10.00	
Largest and best variety of uses to which honey may be applied, illustrated by individual samples of the different things into which it enters as a component, for example, canned fruits, cakes, pastry, meats, vinegar, etc., Wm. Urle, Minneapolis.....		15.00
Largest and best variety of uses to which honey may be applied, illustrated by individual samples of the different things into which it enters as a component, for example, canned fruits, cakes, pastry, meats, vinegar, etc., Mrs. N. J. Leavitt, Minneapolis.....		\$8.00

Grand Sweepstakes.

Largest, best, most interesting, attractive and instructive exhibition in this department, all things considered, Wm. Urle, Minneapolis.....	25.00	
Largest, best, most interesting, attractive and instructive exhibition in this department, all things considered, J. M. Dondua, Alexandria.....		15.00
Largest, best, most interesting, attractive and instructive exhibition in this department, all things considered, Wm. H. Bright, Mazeppa.....	Third	10.00
Total.....	\$277.00	

DIVISION H.—HOUSEHOLD FABRICS.

Premiums awarded.....\$432.50

J. H. BURWELL, St. Paul, Superintendent.	
MRS. CROSSLEY, St. Paul, Assistant Superintendent.	
MISS ISABELLA L. DOUGAN,	} Judges of Class 66.
MISS MINNIE C. ALBRO,	
MISS ALICE GARRATT,	
MRS. H. L. SMITH,	} Judges of Class 67.
MRS. E. W. GOODNER,	
MISS LIZZIE A. HUSSE,	

CLASS 66.—LADIES' TEXTILE WORK, ETC.

Display of fancy work, made up and otherwise.—Pastel portrait, size 18x22, beautifully framed, valued at \$40.00, offered by Harry Shepherd & Co., St. Paul.. Mrs. N. L. Bryant, St. Paul.

	1st prem.	2d prem.
Apron, child's, Mrs. J. F. Geary, St. Paul.....	\$1.00	
Apron, hemstitched, Miss Lizzie Shott, St. Paul.....	1.00	
Apron, fancy, Mrs. M. P. Stout, Minneapolis.....	2.00	
Apron, fancy, Miss Laura Foster, St. Paul.....		\$1.00
Bag, fancy, Mrs. J. F. Geary, St. Paul.....	1.00	
Bag, fancy, Mrs. T. L. Morgan, St. Paul.....		.50
Bag, shopping, Mrs. E. A. Carter, St. Anthony Park.....	1.00	
Bag, shopping, Mrs. Grimschied, St. Paul.....		.50
Bag, work, Mrs. J. F. Geary, St. Paul.....		.50
Banner, (wall) fancy, Mrs. N. L. Bryant, St. Paul.....	2.00	
Banner, (wall) fancy, Mrs. E. A. Carter, St. Anthony Park.....		1.00
Basket, work, Mrs. G. E. Cooper, St. Paul.....	2.00	
Basket, work, Mrs. J. Allen, Hamline.....		1.00
Braiding, specimen, Mrs. E. A. Carter, St. Anthony Park.....	1.00	
Braiding, specimen, Miss M. T. Flegle, Minneapolis.....		.50
Case, glove, Mrs. G. A. Lawton, St. Paul.....	1.00	

	1st prem.	2d prem.
Case, glove, Mrs. O. N. Dunham, Minneapolis.....		\$.50
Case, photograph, Mrs. W. I. Stager, Hamline.....	\$1.00	
Case, photograph, Mrs. J. F. Geary, St. Paul.....		.50
Case, slipper, Mrs. G. O. Lawton, St. Paul.....	2.00	
Case, slipper, Mrs. E. A. Carter, St. Anthony Park.....		1 00
Cases, (pillow) fancy, Mrs. A. Peck, St. Paul.....	2.00	
Cases, (pillow) fancy, Miss Laura Foster, St. Paul.....		1.00
Cases, (pillow) embroidered, Miss Agatha Schweizer, St. Paul.....		1.00
Cases, (pillow) drawn work, Mrs. E. C. Baxter, Fergus Falls.....	2.00	
Cases, (pillow) hemstitched, Miss Mary Peterson, Fergus Falls.....	2.00	
Cases, (pillow) hemstitched, Mrs. S. M. Sterrett, Lake City.....		1.00
Comforter, tacked, Miss E. C. Tate, St. Paul.....	2.00	
Comforter, tacked, Mrs. W. F. Cross, Hamline.....		1.00
Cloth, lunch, Mrs. O. N. Dunham, Minneapolis.....	2.00	
Cloth, lunch, Mrs. N. L. Bryant, St. Paul.....		1.00
Cloth, (tray) embroidered, Mrs. L. W. French, St. Paul...	2.00	
Cloth, (tray) embroidered, Miss Nettie Coburn, St. Paul..		1.00
Cloth, (tray) drawn, Mrs. M. P. Stout, Minneapolis.....	2.00	
Cloth, (tray) drawn, Miss Allie Dupont, Minneapolis....		1.00
Centerpiece, linen, emb., Mrs. M. P. Stout, Minneapolis...	2.00	
Centerpiece, linen, emb., Mrs. O. N. Dunham, M'p'ls....		1.00
Cover, sideboard, made up, Mrs. M. P. Stout, Minneapolis...	3.00	
Cover, sideboard, made up, Mrs. E. C. Baxter, Fergus Falls		1.50
Cover, (table) drawn work, Mrs. E. C. Baxter, Fergus Falls	3.00	
Cover, (table) Japanese, made up, Mrs. J. F. Geary, St. Paul.....	3.00	
Cover, (table) fancy, made up, Mrs. W. J. Aries, Rochester	3.00	
Crochet work, collection, Miss Alice Filbert, Minneapolis	3.00	
Crochet work, collection, Mrs. T. L. Morgan, St. Paul....		1.50
Crochet work, cotton lace, one yard or more, Mrs. M. L. Baldwin, Minneapolis.....	1.00	
Crochet work, cotton lace, one yard or more, Mrs. T. L. Morgan, St. Paul.....		.50
Crochet work, silk lace, one yard or more, Mrs. C. H. McGill, St. Anthony Park.....	1.00	
Crochet work, silk lace, one yard or more, Mrs. J. W. Hawkins, Minneapolis.....		.50
Crochet work, wool lace, one yard or more, Mrs. M. P. Stout, Minneapolis.....	1.00	
Crochet work, fascinator, Agatha Schmizer, St. Paul.....		.50
Cushions, toilet, Mrs. Montant, Hamline.....	1.00	
Cushions, toilet, Mrs. O. N. Dunham, St. Paul.....		.50
Cushions, toilet, with bottles, Miss Allie Ballard, St. Paul		1.00
Doylies, drawn work, one-half dozen, Mrs. M. P. Stout, Minneapolis.....	2.00	
Doylies, drawn work, one-half dozen, Mrs. C. S. Bixby, St. Paul.....		1.00
Doylies, embroidered, one-half dozen, Mrs. G. R. Fishleigh, St. Paul.....	2.00	
Doylies, embroidered, one-half dozen, Mrs. L. W. French, St. Paul.....		1.00
Doylies, etched, one-half dozen, Mrs. J. O. Lawton, St. Paul	2.00	
Doylies, hemstitched, one-half dozen, Mrs. E. C. Childs, Minneapolis.....	2.00	
Doylies, hemstitched, one-half dozen, Miss Mary Peterson, Fergus Falls.....		1.00
Darning, specimen, Miss Willa De Hoan, St. Paul.....	1.00	
Drawn work, specimen, Mrs. M. P. Stout, Minneapolis...	2.00	
Drawn work, specimen, Miss M. Peterson, Fergus Falls..		1.00
Embroidery, golden, Mrs. W. J. Aries, Rochester.....	2.00	

	1st prem.	2d prem.
Embroidery, Kensington, silk, Mrs. E. C. Baxter, Fergus Falls.....	\$2.00	
Embroidery, Kensington, silk, Mrs. J. F. Geary, St. Paul.		\$1.00
Embroidery, Kensington, worsted, Mrs. C. C. Schuble, St. Paul.....	2.00	
Embroidery, solid cotton, Miss Mary Peterson, Fergus Falls.....	2.00	
Embroidery, solid cotton, Mrs. Blouth, St. Paul.....		1.00
Embroidery, solid linen, Flora Jackson, St. Paul.....	2.00	
Embroidery, solid linen, Mrs. E. C. Baxter, Fergus Falls..		1.00
Embroidery, solid silk, Mrs. M. P. Stout, Minneapolis....	2.00	
Embroidery, solid silk, Mrs. J. F. Geary, St. Paul.....		1.00
Etching in silk, Mrs. S. M. Sterrett, Lake City.....	2.00	
Etching in silk, Mrs. M. Peterson, Fergus Falls.....		1.00
Etching in cotton, Miss M. T. Flegle, Minneapolis.....	2.00	
Etching in cotton, Mrs. S. M. Sterrett, Lake City.....		1.00
Etching in linen, Mrs. W. J. Arles, Rochester.....	2.00	
Etching in linen, Miss M. Peterson, Fergus Falls.....		1.00
Fire screen, mounted, Mrs. J. F. Geary, St. Paul ..	3.00	
Fire screen, mounted, Mrs. O. N. Dunham, St. Paul.....		1.50
Foot rest, mounted, Mrs. E. A. Fillmore, Minneapolis...	3.00	
Handkerchief, drawn work, Mrs. E. C. Childs, Minneapolis.	1.00	
Handkerchief, drawn work, Mrs. G. E. Cooper, St. Paul..		.50
Handkerchief, embroidered, Mrs. E. C. Childs, Minneapolis.	1.00	
Handkerchief, embroidered, Mrs. G. E. Cooper, St. Paul..		.50
Handkerchief, fancy, Mrs. Ehrmantrout, St. Paul.....	1.00	
Handkerchief, fancy, Willa De Hoan, St. Paul .....		.50
Handkerchief, lace, hand made, Mrs. J. F. Geary, St. Paul	2.00	
Handkerchief, lace, hand made, Mrs. J. F. Geary, St. Paul	1.00	
Knitting, collection, Alice E. Otis, St. Paul.....	2.00	
Knitting, collection, Mrs. M. L. Baldwin, Minneapolis...		1.00
Knitting, lace, cotton, Mrs. Montaut, Hamline.....	2.00	
Knitting, lace, cotton, Mrs. M. L. Baldwin, Minneapolis..		1.00
Knitting, lace, silk, Mrs. M. L. Baldwin, Minneapolis....	2.00	
Knitting, lace, silk, Mrs. M. L. Baldwin, Minneapolis....		1.00
Knitting, lace, wool, Mrs. M. J. Weed, St. Paul	2.00	
Knitting, lace, wool, Mrs. G. O. Lawton, St. Paul.....		1.00
Lace, applique, Mrs. J. F. Geary, St. Paul.....	2.00	
Lambrequin, mantel, Mrs. E. A. Carter, St. Anthony P'k.	3.00	
Lambrequin, mantel, Mrs. John Humble, St. Paul.....		1.50
Lambrequin, window, Mrs. E. A. Carter, St. Anthony P'k.	3.00	
Lambrequin, window, Mrs. E. C. Palmer, St. Paul.....		1.50
Mat, lamp, Mrs. O. N. Dunham, St. Paul.....	2.00	
Mat, lamp, Miss M. Peterson, Fergus Falls.....		1.00
Mat, toilet, Miss Sue E. Hoyt, Hamline.....	2.00	
Mat, toilet, Mrs. O. N. Dunham, St. Paul.....		1.00
Mat, table, Mrs. E. C. Baxter, Fergus Falls.....	2.00	
Mat, table, Mrs. M. P. Stout, Minneapolis.....		1.00
Mittens, (men's) wool, knitted, Mrs. Putman, Hamline...	2.00	
Mittens, (men's) wool, knitted, Mrs. Blackmore, St. Paul.		1.00
Mittens, (ladies') wool, knitted, Mrs. Humble, St. Paul..	2.00	
Mittens, (ladies') wool, knitted, Mrs. Humble, St. Paul...		1.00
Napkins, embroidered, one dozen, Mrs. G. E. Cooper, St. Paul.....	2.00	
Net, darned, specimen, Mrs. M. L. Baldwin, Minneapolis.	1.00	
Net, darned, specimen, Mrs. F. E. Smith, Hamline.....		.50
Pillow, sofa, fancy, made up, Mrs. D. F. Polk, St. Anthony Park.....	3.00	
Pillow, sofa, fancy, made up, Miss Bernice Cameron, St. Anthony Park.....		1.50
Pillow, Japanese, made up, Miss Allie Ballard, St. Paul..		1.00
Pillow, chair, fancy, Mrs. E. J. Falk, Minneapolis.....		1.00
Portieres, made up, Mrs. M. Britts.....	3.00	

	1st. prem.	2d. prem.
Quilt, log cabin, silk, Mrs. John Wilcox, St. Anthony Park.....		\$1.00
Quilt, log cabin, wool, Mrs. L. O. Godkin, St. Paul.....	\$2.00	
Quilt, log cabin, wool, Mrs. A. S. Babcock, St. Anthony Park.....		1.00
Quilt, patchwork, cotton, Mrs. M. O'Neill, St. Paul.....	2.00	
Quilt, patchwork, cotton, Mrs. A. Peck, St. Paul.....		1 00
Quilt, patchwork, silk, Mrs. Wm. Leighton, St. Paul.....	3.00	
Quilt, patchwork, silk, Mrs. G. R. Fishleigh, St. Paul....		2.00
Quilt, quilted, white cotton, Mrs. A. J. Ayers, Comoville.	2.00	
Quilt, quilted, white cotton, Mrs. T. W. Wallace, Hamline		1.00
Quilting, specimen, Mrs. D. F. Polk, St. Anthony Park...	2.00	
Quilting, specimen, Mrs. W. F. Cross, Hamline.....		1.00
Robe, slumber, knitted, Mrs. S. M. Sterrett, Lake City...	2.00	
Robe, slumber, knitted, Mrs. D. A. Church, St. Paul. . .		1.00
Robe, slumber, Japanese, Mrs. A. S. Babcock, St. Anthony Park.		1.00
Robe, lap, Mrs. O. N. Dunham, St. Paul.....	2.00	
Rug, hearth, rag, Miss Sue E. Hoyt, Hamline.....	2.00	
Rug, hearth, rag, Mrs. H. A. Isherwood, St. Paul.....		1.00
Rug, hearth, wool, Mrs. Ole Anderson, St. Paul.....	2.00	
Rug, parlor, wool, Vina Harden, Hamline.....	2.00	
Rug, parlor, wool, Mrs. E. A. Fillmore, Minneapolis.....		1.00
Runner, table, embroidered, Mrs. E. C. Childs, Minneapolis	2.00	
Runner, table, embroidered, Mrs. E. C. Bailey, Fergus Falls.....		1.00
Scarf, bureau, embroidered, Mrs. M. P. Stout, Minneapolis	2.00	
Scarf, bureau, embroidered, Mrs. Conham, St. Paul.....		1.00
Scarf, bureau, etched, Miss M. Peterson, Fergus Falls....	2.00	
Scarf, sideboard, embroidered, Mrs. O. N. Dunham, St. Paul.....	2.00	
Scarf, sideboard, embroidered, Mrs. E. A. Fillmore, Minneapolis.....		1 00
Scarf, sideboard, etched, Miss Mary Peterson, Fergus Falls	2.00	
Scarf, table, embroidered, Mrs. M. P. Stout, Minneapolis.	2.00	
Scarf, easel, fancy, Mrs. S. M. Sterrett, Lake City.....	2.00	
Scarf, easel, fancy, Mrs. A. M. Wiatt, Minneapolis.....		1.00
Sewing, hand, different stitches, tucking and hemming, Mrs. M. T. Flegle, Minneapolis.....	3.00	
Sham, pillow, embroidered, Mrs. Blouth, St. Paul.....	2.00	
Sham, pillow, embroidered, Miss Hemanam, St. Paul....		1.00
Sham, pillow, etched, Mrs. A. Petterson, Winona.....	2.00	
Sham, pillow, etched, Mrs. N. L. Baldwin, Minneapolis...		1.00
Sham, pillow, fancy, Mrs. C. C. Schuble, St. Paul.....	2.00	
Sham, pillow, fancy, Mrs. C. E. Norton, Minneapolis....		1.00
Shawl, crotched, Mrs. S. M. Sterrett, Lake City.....	2 00	
Shawl, crotched, Mrs. G. E. Cooper, St. Paul.....		1.00
Shawl, embroidered, Mrs. M. T. Flegle, Minneapolis.....	3.00	
Shawl and cape, knitted, Mrs. J. Wilcox, St. Anthony Park.	1.00	
Shawl and cape, knitted, Mrs. D. F. Polk, St. Anthony Park		.50
Skirt, crotched, Mrs. S. M. Sterrett, Lake City.....	2.00	
Skirt, crotched, Miss Jennie Wilcox, St. Anthony Park..		1.00
Skirt, flannel, embroidered, Mrs. M. P. Stout, Minneapolis	2.00	
Skirt, knitted, Mrs. M. L. Baldwin, Minneapolis.....	2.00	
Spread, crocheted, Marion Murrey, St. Paul.....	3.00	
Spread, crocheted, Mrs. Montaut, Hamline.....		1.50
Spread, knitted, Mrs. N. L. Baldwin, Minneapolis.....	3.00	
Spread, knitted, Mrs. Geo. Ossman, West St. Paul.....		1.50
Socks, (men's) wool knitted, Mrs. Putman, Hamline.....		1.00
Stockings, (ladies') cotton knitted, Mrs. N. L. Baldwin, Minneapolis.....	2.00	
Stockings, (ladies') cotton knitted, Miss Mary T. Duffy, St. Paul.....		1.00
Stockings, (ladies') silk knitted, Mrs. M. P. Start, Minneapolis.....	2.00	

	1st prem.	2d prem.
Stockings, (ladies') wool knitted, Mrs. N. L. Baldwin, Minneapolis.....	\$2.00	
Stockings, (ladies') wool knitted, Mrs. N. L. Baldwin, Minneapolis.....		\$1.00
Tidy, fancy, any material, Mrs. T. L. Morgan, St. Paul...	2.00	
Tidy, fancy, any material, Mrs. Montaut, Hamline.....		1 00
Tidy, silk, Mrs. Ehermant trout, St. Paul.....	2.00	
Tidy, silk, Mrs. M. T. Duffy, St. Paul.....		1.00
Tidy, cotton, Mrs. Conham, St. Paul.....	1.00	
Tidy, cotton, Mrs. S. Huntington, Windom.....		.50
Tidy, linen, Mrs. O. N. Dunham, St. Paul.....	1.00	
Tidy, linen, Mrs. E. A. Carter, St. Anthony Park.....		.50
Tidy, wool, Mrs. E. A. Carter, St. Anthony Park.....		.50
Tidy, crocheted, Mrs. Montaut, Hamline.....	1.00	
Tidy, crocheted, Mrs. S. M. Sterrett, Lake City.....		.50
Tapestry picture, worsted, Mrs. S. M. Sterrett, Lake City	3.00	
Towels, embroidered, one-half dozen, Mrs. G. E. Cooper, St. Paul.....	2.00	
Towels, embroidered, one-half dozen, Mrs. J. F. Geary, St. Paul.....		1.00
Towels, drawn work, Mrs. M. P. Stout, Minneapolis.....	2.00	
Towels, drawn work, Mrs. E. A. Baxter, Fergus Falls....		1.00
Towels, hemstitched, Mrs. D. F. Polk, St. Anthony Park...	2.00	
Towels, hemstitched, Mrs. E. A. Baxter, Fergus Falls....		1.00
Underwear (ladies'), knitted, Mrs. G. O. Lawton, St. Paul,	3.00	
Underwear (children's), knitted, Mrs. G. O. Lawton, St. Paul.....	2.00	
Underwear (children's), knitted, Mrs. M. J. Weed, St. Paul,		1.00
Worsted work on canvas, Mrs. J. F. Geary, S. Paul.....	2.00	
Worsted work on canvas, Mrs. N. L. Baldwin, Minneapolis,		1.00

CLASS 67.—FINE ART WORK.

(Open to amateurs only.)

Hair work (ornamental, etc.) collection, Mrs. G. O. Lawton, St. Paul.....	3.00	
Hair work (ornamental, etc.) collection, Agatha Schweizer, St. Paul.....		1.50
Hand-painted china, largest and best collection by one person, Mrs. L. J. Templeton.....	3.00	
Hand-painted china, largest and best collection by one person, Mrs. C. J. Thompson, St. Paul.....		1.50
Finest collection of paintings (oil or water), St. Paul Art Club, diploma.....	10.00	
Finest collection of paintings (oil or water), Mrs. A. S. Babcock, St. Anthony Park.....		5.00
Miscellaneous historic paintings, Mrs. A. S. Babcock, St. Anthony Park.....	3.00	
Portrait, from sitting, Mrs. A. S. Babcock, St. Anthony Park.....	3.00	
Portrait, from sitting, Alice Thorson, St. Paul.....		1.50
Minnesota landscape, from nature, St. Paul Art Club....	3.00	
Minnesota landscape, from nature, Nellie Stephenson, St. Paul.....		1.50
Marine view, St. Paul Art Club.....	3.00	
Marine view, Lucy Jacobson, St. Paul.....		1.50
Figure or figures, St. Paul Art Club.....	3.00	
Figure or figures, Mrs. W. W. Phelps, St. Anthony Park..		1.50
Animal, from nature, Mrs. G. E. Cooper, St. Paul.....	3.00	
Animal, from nature, Agatha Schweizer, St. Paul.....		1.50
Fruit, from nature, Mrs. W. W. Phelps, St. Anthony Park	2.00	
Fruit, from nature, Elmanette Carlton, Minneapolis....		1.00
Flowers, from nature, Elmanette Carlton, Minneapolis...	2.00	

	1st prem.	2d prem.
Flowers, from nature, St. Paul Art Club.....		\$1.00
Painting, still life, from nature, St. Paul Art Club.....	\$2 00	
Painting, still life, from nature, St. Paul Art Club.....		1.00
Crayon, Camelia Jenson, St. Paul.....	2.00	
Crayon, Mrs. W. F. Cross, Hamline.....		1.00
Pastel, Lydia M. Rich, Hamline.....	2.00	
Pastel, Elmanette Carlton, Minneapolis.....		1.00
Sepia, St. Paul Art Club.....	2.00	
Sepia, Frances Carlton, Minneapolis.....		1.00
Painting on glass, Miss Lottie Beck, Brown's Valley.....	2.00	
Painting on glass, Mrs. G. E. Cooper, St. Paul.....		1.00
Painting on satin, Miss Jennie Wilcox, St. Anthony Park..	2.00	
Painting on satin, Mrs. E. A. Carter, St. Anthony Park..		1.00
Painting on silk, St. Paul Art Club.....	2.00	
Painting on silk, Miss Jennie Wilcox, St. Anthony Park..		1.00
Painting on velvet or plush, St. Paul Art Club.....	2.00	
Painting on velvet or plush, Elmanette Carlton, M'n'p'l's.		1.00
Painting on tile, Lucy Jacobson, St. Paul.....	2.00	
Painting on tile, Mrs. J. F. Geary, St. Paul.....		1.00
Painting on mirror frame, St. Paul Art Club.....	2.00	
Painting on mirror frame, Mrs. W. W. Phelps, St. An- thony Park.....		1.00
Painting on chamolais, Mrs. S. J. Perry, Excelsior.....	2.00	
Painting on chamolais, Nellie Stephenson, St. Paul.....		1.00
Painting on bolting cloth, Nellie Stephenson, St. Paul...	2.00	
Painting on bolting cloth, Mrs. G. E. Cooper, St. Paul....		1.00
Photographs, largest display and best collection of cabi- nets, (portraits and views), all the work competing to be that of the exhibitor, Harry Shepherd, St. Paul.....		Diploma.

CLASS 68.—FACTORY MADE.

No entries.

Total.....\$432.50

DIVISION J.—FRUITS AND FLOWERS.

Premiums awarded.....\$777.00

(Under the Auspices of the State Horticultural Society.)

J. M. UNDERWOOD, Lake City, Superintendent.

F. G. GOULD,	}	Judges of Class 69, Professionals.
J. G. BASS,		
J. S. HARRIS,	}	Judges of Class 69, Amateurs and Russian.
S. D. HELLMAN,		
J. O. BARRETT		
J. G. BASS,		
F. G. GOULD,		
O. F. RAND, Judge of Class 70.		
C. L. SMITH,	}	Judges of Class 71.
DITUS DAY,		
WYMAN ELLIOT,	}	Judges of Class 72
SAM'L B. GREEN,		

CLASS 69.—APPLES.

Sweepstakes.

	1st prem.	2d prem.
Collection, may or may not be grown by exhibitor, R. C. Keel, Rochester.....	\$20.00	
Collection, may or may not be grown by exhibitor, Wm. Somerville, Viola.....		\$15.00
Collection, may or may not be grown by exhibitor, J. S. Harris, La Crescent.....	Third,	10.00

BY PROFESSIONAL GROWERS AND NURSERYMEN.

	1st prem.	2d prem.
Collection of apples, (hybrids and Siberians excepted) not to exceed twenty varieties, Wm. Somerville, Viola.....	\$15.00	
Collection of apples, (hybrids and Siberians excepted) not to exceed twenty varieties, J. S. Harris, La Crescent.....		\$10 00
Collection of Siberians or hybrids, not to exceed ten varieties, Wm. Somerville, Viola.....	8.00	

Single plates.

Best plate of apples, Wm. Somerville, Viola.....	3.00	
Beech's sweet, O. F. Brand, Faribault.....	2.00	
Brier, sweet, O. F. Brand, Faribault.....	2.00	
Briar, sweet, A. W. Latham, Excelsior.....		1.00
Drake, O. F. Brand, Faribault.....	2.00	
Duchess of Oldenberg, Wm. Somerville, Viola.....	2.00	
Duchess of Oldenberg, A. W. Latham, Excelsior.....		1.00
Early Strawberry, Wm. Somerville, Viola.....	2.00	
Elgin Beauty, Wm. Somerville, Viola.....	2.00	
Florence, Wm. Somerville, Viola.....	2.00	
Geo. Miller, O. F. Brand, Faribault.....	2.00	
Giant Swar, M. Pearce, Chowen.....	2.00	
Haas, Wm. Somerville, Viola.....		1.00
Haas, J. S. Harris, LaCrescent.....	2.00	
Hyslop, O. F. Brand, Faribault.....	2.00	
Hyslop, Wm. Mackintosh, Langdon.....		1.00
Fameuse, J. S. Harris, LaCrescent.....	2.00	
McMahon's White, M. Pearce, Chowen.....	2.00	
Grange, O. F. Brand, Faribault.....	2.00	
Orange, A. W. Latham, Excelsior.....		1.00
Peach, O. F. Brand, Faribault.....	2.00	
Peach, Wm. Somerville, Viola.....		1.00
Powers, Wm. Somerville, Viola.....	2.00	
Powers, M. Pearce, Chowen.....		1.00
Sweet Russett, W. Somerville, Viola.....	2.00	
Petofsky, J. S. Harris, La Crescent.....	2.00	
Petofsky, Wm. Somerville, Viola.....		1.00
Transcendent, A. W. Latham, Excelsior.....	2.00	
Transcendent, Wm. Mackintosh, Langdon.....		1.00
Virginia, Wm. Somerville, Viola.....	2.00	
Wealthy, M. Pearce, Chowan.....	2.00	
Wealthy, J. S. Harris, LaCrescent.....		1.00
Whitney, O. F. Brand, Faribault.....	2.00	
Whitney, M. Pearce, Chowen.....		1.00

AMATEURS OR FARMERS.

(Market gardeners excluded.)

Collection of apples, Mrs. C. W. Gordon, Longlake.....	10.00	
Collection of apples, R. C. Keel, Rochester.....		7.00
Collection of apples, W. L. Parker, Farmington.....	Third,	4.00
Autumn, three varieties, R. C. Keel, Rochester.....	5.00	
Autumn, three varieties, Sidney Casp, Hammond.....		3.00
Autumn, three varieties, Geo. Miller, Richland.....	Third,	2.00
Winter, three varieties, Sidney Casp, Hammond.....	5.00	
Winter, three varieties, R. C. Keel, Rochester.....		3.00
Winter, three varieties, Geo. Miller, Richland.....	Third,	2.00

SINGLE PLATES.

Best plate of apples, grown in Minnesota, W. L. Parker, Farmington.....	3.00	
Best plate of apples, grown in Minnesota, R. C. Keel, Rochester.....		1.50

	1st prem.	2d prem.
Beech's Sweet, L. E. Day, Farmington.....	\$2.00	
Beech's Sweet, R. C. Keel, Rochester..		\$1.00
Brier Sweet, L. E. Day, Farmington.....	2.00	
Brier Sweet, H. J. Ludlow, Worthington.....		1.00
Drake, Ditus Day, Farmington.....	2.00	
Duchess of Oldenberg, Geo. H. Smith, Long Lake.....	2.00	
Duchess of Oldenberg, W. L. Parker, Farmington.....		1.00
Early Strawberry, R. C. Keel, Rochester....	2.00	
Early Strawberry, W. L. Parker, Farmington.....		1.00
Elgin Beauty, Sidney Casp, Hammond.....	2.00	
Elgin Beauty, R. C. Keel, Rochester.....		1.00
Fameuse, L. E. Day, Farmington.....	2.00	
Fameuse, Ditus Day, Farmington.....		1.00
Florence, R. C. Keel, Rochester.....	2.00	
Florence, Mrs. C. W. Gordon, Long Lake.....		1.00
Geo. Miller, H. F. Miller, Faribault.....	2.00	
Geo. Miller, Geo. Miller, Richland.....		1.00
Haas, L. E. Day, Farmington.....	2.00	
Haas, Ditus Day, Farmington.....		1.00
Hyslop, R. C. Keel, Rochester.....	2.00	
Hyslop, H. F. Miller, Faribault.....		1.00
McMahon's White, Sidney Casp, Hammond.....	2.00	
McMahon's White, R. C. Keel, Rochester.....		1.00
Meador's Winter, L. E. Day, Farmington.....	2.00	
Meador's Winter, H. F. Miller, Faribault.....		1.00
Minnesota, R. C. Keel, Rochester.....	2.00	
Minnesota, U. L. Parker, Farmington.....		1.00
Orange, R. Knapheide, St. Paul.....	2.00	
Orange, L. E. Day, Farmington.....		1.00
Peach, Ditus Day, Farmington.....	2.00	
Peach, H. F. Miller, Faribault.....		1.00
Powers', R. C. Keel, Rochester.....	2.00	
Powers', L. E. Day, Farmington.....		1.00
Sweet Russet, R. C. Keel, Rochester.....	2.00	
Sweet Russet, H. F. Miller, Faribault.....		1.00
Tetofsky, Francis Dick, Afton.....	2.00	
Tetofsky, R. C. Keel, Rochester.....		1.00
Transcendent, H. J. Ludlow, Worthington.....	2.00	
Transcendent, U. L. Parker, Farmington.....		1.00
Virginia, U. L. Parker, Farmington.....	2.00	
Virginia, Ditus Day, Farmington.....		1.00
Wealthy, Sidney Casp, Hammond.....	2.00	
Wealthy, R. C. Keel, Rochester.....		1.00
Whitney, H. F. Miller, Faribault.....	2.00	
Whitney, U. L. Parker, Farmington.....		1.00

RUSSIAN APPLES.

Professional and non-Professional Cultivators.

Collection new Russian apples, Wm. Somerville, Viola..	10.60	
Collection new Russian apples, R. C. Keel, Rochester.....		5.00
Collection new Russian apples, Andrew Peterson, Waconia	Third,	3.00

Single Plates.

Antonovka, Andrew Peterson, Waconia.....	2.00	
Charlamoff, R. C. Keel, Rochester.....	2.00	
Charlamoff, Andrew Peterson, Waconia.....		1.00
Golden White, R. C. Keel, Rochester.....	2.00	
Golden White, Sidney Casp, Hammond.....		1.00
Green (Selonka), Wm. Somerville, Viola.....	2.00	
Green (Selonka), R. C. Keel, Rochester.....		1.00
Hibernal, Wm. Somerville, Viola.....	2.00	
Hibernal, Sidney Casp, Hammond.....		1.00
Longfield, R. C. Keel, Rochester.....	2.00	

	1st prem.	2d prem.
Longfield, O. F. Brand, Faribault.....		\$1.00
Lieby, M. Pearce, Chowen.....	\$2.00	
Lieby, Andrew Peterson, Waconia.....		1.00
Ostrakoff, Wm. Somerville, Viola.....	2.00	
Ostrakoff, R. C. Keel, Rochester.....		1.00
Red Black, Wm. Somerville, Viola.....	2.00	
Red Black, R. C. Keel, Rochester.....		1.00
Red Anis, Wm. Somerville, Viola.....	2.00	
Red Anis, R. C. Keel, Rochester.....		1.00
Red Queen, R. C. Keel, Rochester.....	2.00	
Red Queen, Wm. Somerville, Viola.....		1.00
Bepka, R. C. Keel, Rochester.....	2.00	
Bepka, Wm. Somerville, Viola.....		1.00
Russian Autumn, Wm. Somerville, Viola.....	2.00	
Russian Autumn, R. C. Keel, Rochester.....		1.00
White Pigeon, Wm. Somerville, Viola.....	2.00	
White Pigeon, R. C. Keel, Rochester.....		1.00
Zolatoreff, Wm. Somerville, Viola.....	2.00	
Zolatoreff, R. C. Keel, Rochester.....		1.00

Seedling Apples.

Collection, Geo. Miller, Richland.....	10.00	
Collection, Mrs. C. W. Gordon, Long Lake.....		5.00
Single variety, for all purposes, Geo. Miller, Richland....	5.00	
Single variety, for all purposes, Mrs. R. Palmer, Viola....		3.00
Long keeping shown at State Fair (premium to be awarded when exhibited, also at annual meeting of State Horticultural Society), not kept in cold storage, Geo. Miller, Richland.....	5.00	
Long keeping shown at State Fair (premium to be awarded when exhibited, also at annual meeting of State Horticultural Society), not kept in cold storage, Mrs. R. Palmer, Viola.....		3.00

CLASS 70.—GRAPES.

Sweepstakes.

Collection, may or may not be grown by exhibitor, A. W. Latham, Excelsior.....	15.00	
Collection, may or may not be grown by exhibitor, Mrs. S. Irwin, Excelsior.....		10.00
Collection, may or may not be grown by exhibitor, F. G. Gould, Excelsior.....	Third	5.00
Collection, grown by exhibitor, A. W. Latham, Excelsior..	15.00	
Collection, grown by exhibitor, Mrs. Belle Barton, Excel- sior.....		10.00
Collection, grown by exhibitor, F. G. Gould, Excelsior..	Third	5.00

Single Plates.

Agawam, A. W. Latham, Excelsior.....	2.00	
Agawam, Mrs. Belle Barton, Excelsior.....		1.00
Brighton, H. L. Crane, Excelsior.....	2.00	
Brighton, A. W. Latham, Excelsior.....		1.00
Concord, A. W. Latham, Excelsior.....	2.00	
Concord, Mrs. S. Irwin, Excelsior.....		1.00
Delaware, Mrs. S. Irwin, Excelsior.....	2.00	
Delaware, A. W. Latham, Excelsior.....		1.00
Duchess, H. L. Crane, Excelsior.....	2.00	
Duchess, A. W. Latham, Excelsior.....		1.00
Early Victor, Mrs. Belle Barton, Excelsior.....	2.00	
Empire State, A. W. Latham, Excelsior.....	2.00	

	1st. prem.	2d. prem.
Empire State, Mrs. Belle Barton, Excelsior.....		\$1.00
Herbert (Rogers No. 44), A. W. Latham, Excelsior.....	\$2.00	
Iona, H. L. Crane, Excelsior.....	2.00	
Iona, A. W. Latham, Excelsior.....		1.00
Janesville, H. L. Crane, Excelsior.....	2.00	
Janesville, R. Knapheide, St. Paul.....		1.00
Lady, A. W. Latham, Excelsior.....	2.00	
Lady, R. Knapheide, St. Paul.....		1.00
Lindley, A. W. Latham, Excelsior.....	2.00	
Lindley, H. L. Crane, Excelsior.....		1.00
Massasoit, R. Knapheide, St. Paul.....	2.00	
Massasoit, A. W. Latham, Excelsior.....		1.00
Moore's Early, F. G. Gould, Excelsior.....	2.00	
Moore's Early, H. L. Crane, Excelsior.....		1.00
Niagara, Mrs. Belle Barton, Excelsior.....	2.00	
Pocklington, H. L. Crane, Excelsior.....	2.00	
Pocklington, Mrs. Belle Barton, Excelsior.....		1.00
Poughkeepsie Red, Mrs. Belle Barton, Excelsior.....	2.00	
Wilder, A. W. Latham, Excelsior.....	2.00	
Worden, A. W. Latham, Excelsior.....	2.00	
Worden, Mrs. Belle Barton, Excelsior.....		1.00

CLASS 71.—MISCELLANEOUS FRUITS.

(All to be growth of 1892, to be shown in glass pint fruit jars and not in syrup.)

Blackberry, Ancient Britton, H. J. Ludlow, Worthington.....	2.00	
Blackberry, Ancient Britton, J. G. Bass, Hamline.....		1.00
Blackberry, Snyder, L. E. Day, Farmington.....	2.00	
Blackberry, Snyder, U. L. Parker, Farmington.....		1.00
Blackberry, Stone's Hardy, Mrs. Wm. Lyons, Minneapolis.....	2.00	
Blackberry, Stone's Hardy, U. L. Parker, Farmington.....		1.00
Blackberry, Taylor's Prolific, L. E. Day, Farmington.....	2.00	
Blackberry, Taylor's Prolific, Mrs. Wm. Lyons Minneapolis.....		1.00
Currants, collection, Mrs. Wm. Lyons, Minneapolis.....	3.00	
Raspberry, black, Mrs. Wm. Lyons, Minneapolis.....	2.00	
Raspberry, black, Mrs. N. J. Leavitt, Minneapolis.....		1.00
Raspberry, red, Mrs. Wm. Lyons, Minneapolis.....	2.00	
Raspberry, red, Mrs. N. J. Leavitt, Minneapolis.....		1.00
Strawberries, collection, not less than five varieties, Mrs. Wm. Lyons, Minneapolis.....	4.00	

NATIVE PLUMS.

Collection, not less than five varieties, R. Knapheide, St. Paul.....	4.00	
DeSoto, Dewain Cook, Windom.....	2.00	
Forest Garden, Dewain Cook, Windom.....	2.00	
Rollingstone, Dewain Cook, Windom.....	2.00	
Any variety, (best) Dewain Cook, Windom.....	2.00	
Any variety, (best) R. Knapheide, St. Paul.....		1.00

CRANBERRIES.

(Competition open to the World.)

No entries.

CLASS 72.—FLOWERS.

Professional Growers.

(Competition open to the World.)

	1st prem.	2d prem.
Display greenhouse and hothouse plants, in pots, E. Nagel & Co., Minneapolis.....	\$25.00	
Display greenhouse and hothouse plants, in pots, Jno. Vasatka, Minneapolis.....		\$15.00
Display greenhouse and hothouse plants, in pots, M. Windmiller & Son, Mankato.....	Third,	10.00
Display foliage plants in pots, 10 or more varieties, E. Nagel & Co., Minneapolis.....	5.00	
Display foliage plants in pots, 10 or more varieties, Jno. Vasatka, Minneapolis.....		3.00
Display climbing vines, five varieties, Jno. Vasatka, Minneapolis.....	3.00	
Display climbing vines, five varieties, E. Nagel & Co., Minneapolis.....		2.00
Display hanging basket plants, five varieties, E. Nagel & Co., Minneapolis.....	3.00	
Display of Coleus, 6 or more colors, Jno. Vasatka, Minneapolis.....	3.00	
Coleus specimen, Jno. Vasatka, Minneapolis.....	2.00	
Cactus and succulent plants, collection, 10 or more varieties, Jno. Vasatka, Minneapolis.....	5.00	
Fuchsias, in bloom, 6, Jno. Vasatka, Minneapolis.....	5.00	
Fuchsia, in bloom, single, Jno. Vasatka, Mpls.....	2.00	
Fuchsia, in bloom, single, E. Nagel & Co., Mpls.....		1.00
Fuchsia, in bloom, double, Jno. Vasatka, Mpls.....	2.00	
Geraniums, in bloom, 25 varieties, Jno. Vasatka, Minneapolis.....	10.00	
Geraniums, in bloom, 25 varieties, E. Nagel & Co., Minneapolis.....		5.00
Geraniums, in bloom, single, Jno. Vasatka, Minneapolis..	2.00	
Geraniums, in bloom, single, E. Nagel & Co., Minneapolis		1.00
Geraniums, in bloom, double, Jno. Vasatka, Minneapolis.	2.00	
Geraniums, in bloom, double, E. Nagel & Co., Minneapolis		1.00
Geraniums, in bloom, 10 tri-colored and variegated, E. Nagel & Co., Minneapolis.....	5.00	
Geraniums, in bloom, 10 tri-colored and variegated, Jno. Vasatka, Minneapolis.....		3.00
Roses, in bloom, 6, in pots, E. Nagel, Minneapolis....	4.00	
Rose, in bloom, single plant, Jno. Vasatka, Mpls.....	2.00	
Rose, in bloom, single plant, E. Nagel, Minneapolis.....		1.00
Specimen plant, single, any variety, E. Nagel & Co., Minneapolis.....	2.00	
Specimen plant, single, any variety, Vina Harden, Hamline.....		1.00

Cut Flowers.

Display, natural leaves and flowers, artistically arranged, E. Nagel & Co., Minneapolis.....	5.00	
Display, natural leaves and flowers, artistically arranged, F. G. Gould, Excelsior.....		3.00
Display, natural leaves and flowers, artistically arranged, Jno. Vasatka, Minneapolis.....	Third,	2.00
Cut flowers, basket, E. Nagel & Co., Minneapolis.....	5.00	
Cut flowers, basket, F. G. Gould, Excelsior.....		3.00
Funeral design, E. Nagel & Co., Minneapolis.....	5.00	
Funeral design, F. G. Gould, Excelsior.....		3.00
Bouquet, pyramid of roses, E. Nagel & Co., Minneapolis.	3.00	
Bouquet, pyramid of roses, F. G. Gould, Excelsior.....		2.00
Bouquet, hand, E. Nagel & Co., Minneapolis.....	3.00	

	1st prem.	2d prem.
Bouquet, hand, F. G. Gould, Excelsior.....		\$2.00
Asters, assorted colors, 12, Wm. Toole, Baraboo, Wis...	\$3.00	
Asters, assorted colors, 12, M. M. Frisselle, Excelsior...		2.00
Dahlias, assorted colors, 12, Mrs. Belle Barton, Excelsior...	3.00	
Gladioli, distinct colors, 12, Wm. Toole, Baraboo, Wis....	3.00	
Pansies, distinct colors, 25, Wm. Toole, Baraboo, Wis....	3.00	
Pansies, distinct colors, 25, J. G. Bass, Hamline.....		2.00
Petunias, double, 6 colors, Wm. Toole, Baraboo, Wis....	3.00	
Petunias, double, 6 colors, M. Windmiller & Son, Mankato		2.00
Pinks, carnation, 10 varieties, E. Nagel & Co., Minneapolis	3.00	
Pinks, carnation, 10 varieties, F. G. Gould, Excelsior....		2.00
Pinks, hedgewigii, 6 colors, M. Windmiller & Son, Mankato	3.00	
Pinks, hedgewigii, 6 colors, J. G. Bass, Hamline.....		2.00
Roses, distinct varieties, 25, E. Nagel & Co., Minneapolis.	5.00	
Roses, distinct varieties, 25, M. Windmiller & Son, Mankato		3.00
Tuberose, in bloom, 12 plants, E. Nagel & Co., Minneapolis	3.00	

Non-Professional Growers.

(Competition open to the State only.)

Display of greenhouse plants, in pots, Mrs. Wm. Lyons, Minneapolis.....	10.00	
Coleus, display, Mrs. Wm. Lyons, Minneapolis.....	2.00	
Cactus, collection, 5 varieties, Mrs. Wm. Lyons, Minneapolis	3.00	
Cactus, specimen, Mrs. Wm. Lyons, Minneapolis.....	2.00	
Fuchsias, in bloom, single, Mrs. Wm. Lyons, Minneapolis.	2.00	
Fuchsia, in bloom, double, Mrs. Wm. Lyons, Minneapolis.	2.00	
Geraniums, in bloom, single, Mrs. Wm. Lyons, Minneapolis	2.00	
Geraniums, in bloom, double, Mrs. Wm. Lyons, Minneapolis	2.00	
Plants, foliage, five varieties, Mrs. A. S. Babcock, St. Anthony Park.....	3.00	
Plants, foliage, 5 varieties, Mrs. Wm. Lyon, Minneapolis.		1.50
Plant, hanging basket, Mrs. W. Lyons, Minneapolis.....	2.00	
Vine, climbing, specimen, Mrs. A. S. Babcock, St. Anthony Park.....	2.00	
Vine, climbing, specimen, Mrs. Wm. Lyons, Minneapolis.		1.00

CUT FLOWERS.

Annuals, tastefully arranged, collection. First Premium, a typewriter, valued at \$15.00, offered by Brown, Tracy & Co., blank book manufacturers and stationers, St. Paul, Minn..... Anna B. Kingsbury, Merriam Park.

	1st prem.	2d prem.
Annuals, tastefully arranged, collection, Mrs. Frank Rogers, Minneapolis.....		\$3.00
Basket, tastefully arranged, Mrs. G. W. Sherman, Minneapolis.....	\$2.00	
Basket, tastefully arranged, J. G. Bass, Hamline.....		1.00
Bouquet, hand, Mrs. Frank Rogers, Minneapolis.....	2.00	
Bouquet, hand, J. G. Bass, Hamline.....		1.00
Bouquet, table, pair flat, J. G. Bass, Hamline.....	2.00	
Bouquet, table, pair flat, Mrs. Wm. Lyons, Minneapolis..		1.00
Bouquet, everlasting flowers, Mrs. Frank Rogers, Minneapolis.....	2.00	
Bouquet, ornamental grasses, Anna B. Kingsbury, Merriam Park.....	2.00	
Bouquet, ornamental grasses, Mrs. Wm. Lyons, Minneapolis.....		1.00
Leaves and flowers, floral design, artistically arranged, Mrs. N. J. Leavitt, Minneapolis.....	5.00	

Amateurs Under Sixteen Years, Boys or Girls.

	1st prem.	2d prem.
Annals, Hugh F. Wilcox, Northfield	\$5.00	
Pansies, tastefully arranged, display, Hugh F. Wilcox, Northfield	4.00	
Pansies, tastefully arranged, display, Mrs. M. L. Allyn, Red Wing		\$2.00
Total	\$777.00	

DIVISION K.—VEGETABLES AND CULINARY.

Premiums awarded, \$520.00.

J. H. STEVENS, Minneapolis, Superintendent.

D. T. STIMSON,	} Judges.
WILLIAM LYONS,	
TIM McCUE,	

CLASS 73.—VEGETABLES.

Sweepstakes.

Display of culinary and stock vegetables and other agricultural and horticultural products, by any county or local agricultural or horticultural society (outside of Hennepin and Ramsey counties), no portion of display to be entered for individual premiums.

Goodhue County Farmers' Club, Red Wing	200.00	
Anoka county, Anoka		100.00
Stevens county, Morris	Third,	50.00
Exhibit by professional gardeners, consisting of not less than seventy-five varieties, of each not less than three specimens, all to be grown by the exhibitor.		
August Wittmann, St. Paul	30.00	

CLASS 74.—POTATOES, ETC.

By Professional Growers.

Early potatoes, not less than three varieties, one peck each, Chas. Gantzer, St. Paul	5.00	
Early potatoes, not less than three varieties, one peck each, August Whittmann, St. Paul		2.00
Late keeping potatoes, not less than three varieties, one peck each, August Whittmann, St. Paul	5.00	
Largest and handsomest half bushel potatoes, August Whittmann, St. Paul	3.00	
Three largest, any variety, August Whittman, St. Paul	2.00	
Long blood beet, for table, 12, August Whittmann, St. Paul	2.00	
Long red mangels, 12, Chas. Gantzer, St. Paul	2.00	
Long red mangels, 12, August Whittmann, St. Paul		1.00
Turnip rooted beet, 12, August Whittmann, St. Paul	2.00	
Turnip rooted beet, 12, Chas. Gantzer, St. Paul		1.00
Yellow globe mangels, 12, Chas. Gantzer, St. Paul	2.00	
Yellow globe mangels, 12, August Whittmann, St. Paul ..		1.00

Miscellaneous.

Beans, Lima, in pod, half peck, August Whittmann, St. Paul	2.00	
Beans, string wax, half peck, August Whittmann, St. Paul	2.00	
Beans, string wax, half peck, Chas. Gantzer, St. Paul		1.00

	1st prem.	2d prem.
Cabbage, flat Dutch, 6, August Whittmann, St. Paul.....	\$2.00	
Cabbage, flat Dutch, 6, Chas. Gantzer, St. Paul.....		\$1.00
Cabbage, drumhead, 6, Chas. Gantzer, St. Paul.....	2.00	
Cabbage, drumhead, 6, August Whittmann, St. Paul.....		1.00
Cabbage, Winningstadt, 6, August Whittmann, St. Paul.	2.00	
Cauliflower, 3, August Whittmann, St. Paul.....	2.00	
Celery, 6 heads, Chas. Gantzer, St. Paul.....	2.00	
Corn, evergreen sweet, 12 ears, August Whittman, St. Paul.....	2.00	
Corn, early Cory sweet, 12 ears, August Whittmann, St. Paul.....	2.00	
Cucumbers, 6, Chas. Gantzer, St. Paul.....	2.00	
Cucumbers, 6, August Whittmann, St. Paul.....		1 00
Cucumbers, pickling, half peck, August Whittmann, St. Paul.....	2.00	
Cucumbers, pickling, half peck, Chas. Gantzer, St. Paul..		1.00
Carrots, long orange, 10, Chas. Gantzer, St. Paul.....	2.00	
Carrots, Denver's yellow, 12, table, August Whittmann, St. Paul.....	2.00	
Carrots, Denver's yellow, 12, table, Chas. Gantzer, St. Paul		1.00
Carrots, early shorthorn, 12, table, August Whittman, St. Paul.....	2.00	
Carrots, early, shorthorn, 12 table, Chas. Gantzer, St. Paul.		1.00
Egg Plant, 6, August Whittmann St. Paul.....	2.00	
Egg Plant, 6, Chas. Gantzer, St. Paul.....		1.00
Endive, 6 heads, August Whittmann, St. Paul.....	2.00	
Endive, 6 heads, Chas. Gantzer, St. Paul.....		1.00
Kohl-rabi, 6 heads, August Whittmann, St. Paul.....	2.00	
Lettuce, 6 heads, Chas. Gantzer, St. Paul.....	2.00	
Lettuce, 6 heads, August Whittmann, St. Paul.....		1.00
Melons, water, 3, August Whittmann, St. Paul.....	2.00	
Melons, musk, 3, August Whittmann, St. Paul.....	2.00	
Melons, citron, 3, (preserving) August Whittmann, St. Paul.....	2.00	
Okra, half peck, August Whittmann, St. Paul.....	2.00	
Onions, red, peck, Chas. Gantzer, St. Paul.....	2.00	
Onions, red, peck, August Whittmann, St. Paul.....		1.00
Onions, yellow globe, peck, Chas. Gantzer, St. Paul.....	2.00	
Onions, yellow globe, peck, August Whittmann, St. Paul.		1.00
Onions, white globe, peck, Chas. Gantzer, St. Paul.....	2.00	
Onions, white globe, peck, August Whittmann, St. Paul.		1.00
Onions, white pickling, half peck, August Whittmann, St. Paul.....	2.00	
Onions, white pickling, half peck, Chas. Gantzer, St. Paul.		1.00
Parsnips, hollow crown or sugar, 9, Chas Gantzer, St. Paul.	2.00	
Parsnips, hollow crown or sugar, nine, August Whittmann, St. Paul.....		1.00
Peppers, twelve, large bell, August Whittmann, St. Paul,	2.00	
Peppers, twelve, large bell, Chas. Gantzer, St. Paul.....		1.00
Pumpkins, large field, three, Chas. Gantzer, St. Paul.....	2.00	
Pumpkins, large field, three, August Whittman, St. Paul		1.00
Pumpkins, pie, (cheese), three, Chas. Gantzer, St. Paul...	2.00	
Pumpkins, pie, (cheese), three, August Whittman, St. Paul		1.00
Rhubarb, six stalks, August Whittman, St. Paul.....	2.00	
Rhubarb, six stalks, Chas. Gantzer, St. Paul.....		1.00
Salsify or vegetable oyster, twelve, Chas. Gantzer, St. Paul	2.00	
Squash, Boston Marrow, three, (quality to rule,) Chas. Gantzer, St. Paul.....	2.00	
Squash, Butman, three, (quality to rule), August Whittmann, St. Paul.....	2.00	
Squash, Hubbard, three, (quality to rule), August Whittmann, St. Paul.....	2.00	
Squash, Hubbard, three, (quality to rule), Chas. Gantzer, St. Paul.....		1.00

	1st prem.	2d prem.
Squash, Turban, three, (quality to rule), Chas. Gantzer, St. Paul.....	2.00	
Squash, Turban, three, (quality to rule), August Whittmann, St. Paul.....		1.00
Squash, Marblehead, three, (quality to rule), August Whittmann, St. Paul.....	2.00	
Tomatoes, for all purposes, half peck, August Whittmann, St. Paul.....	2.00	
Tomatoes, for all purposes, half peck, Chas. Gantzer, St. Paul.....		1.00
Turnips, rutabaga, six, Chas. Gantzer, St. Paul.....	2.00	
Pot herbs, collection, August Whittman, St. Paul.....	2.00	
Pot herbs, collection, Chas. Gantzer, St. Paul.....		1.00
Special, offered by L. L. May & Co., St. Paul, Minn., for collection of vegetables raised in Minnesota by one exhibitor, and from seed purchased from L. L. May & Co., .....\$5.00 in gold.		

No entries.

CLASS 75.—VEGETABLES.

Grown and Exhibited by Farmers..

(Market Gardeners excluded.)

Beets, long blood, 6, J. G. Bass, Hamline.....	2.00	
Beets, turnip rooted, 6, J. G. Bass, Hamline.....	2.00	
Beans, wax string, half peck, L. Hoyt, St. Paul.....	2.00	
Beans, pole, half peck, O. A. Smith, Clearwater.....	2.00	
Carrots, orange, 6, O. A. Smith, Clearwater.....	2.00	
Carrots, early shorthorns, 6, O. A. Smith, Clearwater.....	2.00	
Cabbage, flat Dutch, 6, J. G. Bass, Hamline.....	2.00	
Corn, sweet, evergreen, 12 ears, Lorenzo Hoyt, St. Paul...	2.00	
Cucumbers, 3, J. G. Bass, Hamline.....	2.00	
Cucumbers, 3, Lorenzo Hoyt, St. Paul.....		1.00
Cucumbers, pickling, half peck, J. G. Bass, Hamline.....	2.00	
Endive, 6 heads, O. A. Smith, Clearwater.....	2.00	
Melons, citron (preserving), 3, O. A. Smith, Clearwater....	2.00	
Okra, half peck, O. A. Smith, Clearwater.....	2.00	
Onions, red, peck, J. G. Bass, Hamline.....	2.00	
Onions, yellow, peck, J. G. Bass, Hamline.....	2.00	
Onions, white, peck, J. G. Bass, Hamline.....	2.00	
Onions, white, pickling, peck, J. G. Bass, Hamline.....	2.00	
Potatoes, collection, adapted to general cultivation, peck each, J. G. Bass, Hamline.....	3.00	
Potatoes, collection, adapted to general cultivation, peck each, W. M. Ferguson, Linwood Park.....		2.00
Potatoes, early, peck, R. C. Dunn, Princeton.....	2.00	
Potatoes, early, peck, W. S. Best, Rosetown.....		1.00
Potatoes, late-keeping, peck, W. S. Best, Rosetown.....	2.00	
Potatoes, late-keeping, peck, J. G. Bass, Hamline.....		1.00
Potatoes, largest and handsomest, half bushel, J. G. Bass, Hamline.....	2.00	
Parsnips, hollow crown or sugar, 6, O. A. Smith, Clearwater.....	2.00	
Rhubarb, 6 stalks, J. G. Bass, Hamline.....	2.00	
Salsify or vegetable oyster, 6, O. A. Smith, Clearwater....	2.00	
Turnips, rutabaga, 6 yellow, J. G. Bass, Hamline.....	2.00	
Turnips, English, white flat, 6, O. A. Smith, Clearwater..	2.00	
Turnips, English, white flat, 6, L. Hoyt, St. Paul.....		1.00

CLASS 76.—FLOUR, MEAL, SEEDS, ETC.

	1st prem.	2d prem.
Barley, bright, bushel, Francis Dick, Afton.....	\$3.00	
Barley, bright, Francis Dick, Afton, World's Fair premium,	6.00	
Beans, white, peck, Francis Dick, Afton	2.00	
Beans, white, peck, Francis Dick, Afton, World's Fair premium	4.00	
Buckwheat, bushel, O. A. Smith, Clearwater.....	2.00	
Buckwheat, bushel, O. A. Smith, Clearwater, World's Fair premium	4.00	
Buckwheat, bushel, R. Knapheide, St. Paul		\$1.00
Buckwheat, bushel, R. Knapheide, St. Paul, Word's Fair premium		2.00
Corn, broom, seed straw, thirty stalks, O. A. Smith, Clearwater	3.00	
Corn, broom, seed straw, thirty stalks, O. A. Smith, Clearwater, World's Fair premium	6.00	
Corn, yellow dent, fifty ears, R. Knapheide, St. Paul.....	3.00	
Corn, yellow dent, fifty ears, R. Knapheide, St. Paul, World's Fair premium	6.00	
Corn, yellow dent, fifty ears, J. G. Bass, Hamline		2.00
Corn, yellow dent, fifty ears, J. G. Bass, Hamline, World's Fair premium		4.00
Corn, yellow flint, fifty ears, Francis Dick, Afton	3.00	
Corn, yellow flint, fifty ears, Francis Dick, Afton, World's Fair premium	6.00	
Corn, pop, fifty ears, O. A. Smith, Clearwater	2.00	
Corn, pop, fifty ears, O. A. Smith, Clearwater, World's Fair premium	4.00	
Flour made from Minnesota spring wheat, barrel, Kingsland, Smith & Co., St. Paul.....	Diploma.	
Oats, white, bushel, R. Knapheide, St. Paul	3.00	
Oats, white, bushel, R. Knapheide, St. Paul, World's Fair premium	6.00	
Oats, white, bushel, Francis Dick, Afton		2.00
Oats, white, bushel, Francis Dick, Afton, World's Fair premium		4.00
Peas, field, peck, O. A. Smith, Clearwater.....	3.00	
Peas, field, peck, O. A. Smith, Clearwater, World's Fair premium	6.00	
Rye, bushel, Francis Dick, Afton.....	3.00	
Rye, bushel, Francis Dick, Afton, World's Fair premium,	6.00	
Rye, bushel, O. A. Smith, Clearwater.....		2.00
Rye, bushel, O. A. Smith, Clearwater, World's Fair premium		4.00
Seed, flax, peck, O. A. Smith, Clearwater	5.00	3.00
Seed, flax, peck, O. A. Smith, Clearwater, World's Fair premium	10.00	6.00
Wheat, fife, bushel, Francis Dick, Afton.....	5.00	
Wheat, fife, bushel, Francis Dick, Afton, World's Fair premium	10.00	
Wheat, spring, bushel, R. Knapheide, St. Paul	5.00	
Wheat, spring, bushel, R. Knapheide, St. Paul, World's Fair premium	10.00	
Wheat, spring, bushel, Francis Dick, Afton.....		3.00
Wheat, spring, bushel, Francis Dick, Afton, World's Fair premium		6.00
Wheat, winter, bushel, Francis Dick, Afton.....	5.00	3.00
Wheat, winter, bushel, Francis Dick, Afton, World's Fair premium	10.00	6.00
Total.....		\$520.00

DIVISION L.—SUGAR, SYRUP AND DOMESTIC STORES.

Premiums awarded, \$195.00.

J. H. STEVENS, Minneapolis, Superintendent.

D. T. STIMSON,	} Judges of Classes 77 and 78.
A. H. GREEN,	
L. G. ALDRICK,	
D. T. STIMSON,	} Judges of Class 79.
MRS. G. W. SHUMAN,	
MRS. J. W. STONE,	

CLASS 77.—SUGAR AND SYRUP.

	1st prem.	2d prem
Exhibit amber cane sugar, to consist of fifty pounds or more of sugar manufactured from amber cane, with mode of manufacture, Seth H. Kenny, Morristown.....	\$10.00	
Exhibit of amber cane syrup, to consist of five gallons or more of syrup manufactured from amber cane, with mode of manufacture, Seth H. Kenny, Morristown.....	10.00	
Exhibit maple syrup, consisting of one gallon or more of maple syrup, with mode of manufacture, Mrs. B. Barton, Excelsior.....	5.00	

CLASS 78.—BREAD AND CAKE (DOMESTIC) WITH FORMULA.

NOTE.—In this and the following class exhibitors are required to file with the secretary, at the time of making the entry, a written recipe or formula for making the article exhibited. If not done, the exhibit will be debarred from receiving a premium.

	1st prem.	2d prem.
Bread, Boston brown, loaf, Mrs. G. E. Cooper, St. Paul...	\$2.00	
Bread, Boston brown, loaf, Mrs. Wm. Lyons, Minneapolis.		\$1.00.
Bread, graham, loaf, Mrs. G. J. Thiebaud, St. Paul.	2.00	1.00
Bread, graham, loaf, Mrs. Wm. Lyons, Minneapolis		1.00
Bread, white, loaf, Mrs. J. F. Stewart, St. Anthony Park.	2.00	
Bread, white, loaf, Anna B. Kingsbury, Merriam Park. ..		1.00
Bread, corn, Mrs. W. C. Watrous, St. Anthony Park.....	2.00	
Bread, corn, Mrs. M. L. Gantzer, St. Paul.....		1.00
Bread, rye, Mrs. N. J. Leavitt, Minneapolis.....	2.00	
Bread, rye, Mrs. G. J. Thiebaud, St. Paul		1.00
Cake, citron, Mrs. Wm. Jones, Merriam Park.....	2.00	
Cake, citron, Mrs. A. E. Balser, St. Anthony Park.....		1.00
Cake, chocolate, Mrs. H. M. Butts, Hamline.....	2.00	
Cake, chocolate, Mrs. D. F. Polk, St. Anthony Park.		1.00
Cake, chocolate, caramel, Mrs. H. M. Butts, Hamline	2.00	
Cake, chocolate, caramel, Mrs. G. J. Thiebaud, St. Paul..		1.00
Cake, angel, Mrs. G. J. Thiebaud, St. Paul.....	2.00	
Cake, angel, Mrs. W. C. Watrous, St. Anthony Park.....		1.00
Cake, almond, Mrs. Wm. Jones, Merriam Park.....	2.00	
Cake, almond, Mrs. H. M. Butts, Hamline.....		1.00
Cake, delicate, Mrs. Wm. Jones, Merriam Park.....	2.00	
Cake, delicate, Mrs. A. E. Balser, St. Anthony Park.....		1.00
Cake, fruit, Mrs. G. J. Thiebaud, St. Paul.....	2.00	
Cake, gold, Mrs. H. M. Butts, Hamline.....	2.00	
Cake, gold, Mrs. G. J. Thiebaud, St. Paul.....		1.00
Cake, sponge, Mrs. G. J. Thiebaud, St. Paul.....	2.00	
Cake, sponge, Mrs. D. F. Polk, St. Anthony Park.....		1.00
Cookies, white, Mrs. Wm. Jones, Merriam Park.....	2.00	
Cookies, white, Mrs. G. J. Thiebaud, St. Paul.....		1.00
Cookies, molasses, Mrs. G. J. Thiebaud, St. Paul.....	2.00	
Cookies, molasses, Mrs. D. H. Teas, Hamline.....		1.00
Graham gems, Miss Ida Cannon, St. Anthony Park.....	2.00	
Graham gems, Mrs. W. S. Newton, Pine Island....		1.00
Rolls, breakfast, 12, Mrs. G. J. Thiebaud, St. Paul	2.00	
Rolls, breakfast, 12, Anna B. Kingsbury, Merriam Park..		1.00
Rolls, French, 12, Mrs. D. F. Polk, St. Anthony Park....	2.00	
Rolls, French, 12, Mrs. N. J. Leavitt, Minneapolis		1.00

Special.

Pillsbury-Washburn Flour Mill Co., of Minneapolis, offer \$5.00 for the best display of bread, biscuit, etc., made from "Pillsbury's Best" flour; also \$5.00 for the best loaf of bread made by a girl under twelve years of age, from "Pillsbury's Best" flour: First premium, Mrs. J. F. Stewart, St. Anthony Park; second premium, no award.

CLASS 79.—DOMESTIC CANNED GOODS, JELLIES, ETC.

	1st prem.	2d prem.
Canned blackberries, Edna Berden, Hamline.....	\$2.00	
Canned blackberries, Mrs. M. L. Gantzer, St. Paul		\$1.00
Canned blueberries, Mrs. D. F. Polk, St. Anthony Park..	2.00	
Canned blueberries, Mrs. William Lyons, Minneapolis....		1.00
Canned cherries, Mrs. H. L. Tankersley, St. Paul.....	2.00	
Canned cherries, Mrs. A. S. Babcock, St. Anthony Park ..		1.00
Canned crab apple, Mrs. William Lyons, Minneapolis	2.00	
Canned crab apple, Mrs. G. Allyn, Red Wing.....		1.00
Canned currants, red, Mrs. William Lyons, Minneapolis..	2.00	
Canned currants, red, Mrs. L. Huntington, St. Paul.....		1.00
Canned gooseberries, Mrs. William Lyons, Minneapolis...	2.00	
Canned gooseberries, Mrs. M. Britts, St. Paul		1.00
Canned grapes, Mrs. M. L. Gantzer, St. Paul.....	2.00	
Canned grapes, Mrs. Wm. Lyons, Minneapolis		1.00
Canned ground cherries, Mrs. G. Allyn, Red Wing.....	2.00	
Canned plums, Anna B. Kingsbury, Merriam Park.....	2.00	
Canned plums, Mrs. Wm. Lyons, Minneapolis.....		1.00
Canned raspberries, Mrs. N. J. Leavitt, Minneapolis.....	2.00	
Canned raspberries, Mrs. G. Allyn, Red Wing.....		1.00
Canned strawberries, Mrs. L. Tuttle, St. Paul.....	2.00	
Canned strawberries, Mrs. N. J. Leavitt, Minneapolis....		1.00
Canned tomatoes, red, Mrs. M. P. Estes, Hamline.....	2.00	
Canned tomatoes, red, Mrs. G. Allyn, Red Wing.....		1.00
Canned tomatoes, yellow, Mrs. M. Britts, St. Paul.....	2.00	
Canned tomatoes, yellow, Mrs. M. L. Gantzer, St. Paul..		1.00
Jam, blackberry, Edna Berden, Hamline.....	2.00	
Jam, blackberry, Anna B. Kingsbury, Merriam Park.....		1.00
Jam, currant, Mrs. H. L. Tankersley, St. Paul.....	2.00	
Jam, currant, Mrs. M. T. Flegle, Minneapolis		1.00
Jam, gooseberry, Mrs. Wm. Lyons, Minneapolis.....	2.00	
Jam, gooseberry, Mrs. S. M. Sterret, Lake City.....		1.00
Jam, raspberry, Anna B. Kingsbury, Merriam Park.....	2.00	
Jam, raspberry, Mrs. H. L. Tankersley, St. Paul		1.00
Jam, strawberry, Mrs. D. F. Polk, St. Anthony Park.....	2.00	
Jam, strawberry, Mrs. H. L. Tankersley, St. Paul.....		1.00
Jelly, crab apple, $\frac{1}{2}$ pint glass, Mrs. Belle Barton, Excelsior.....	2.00	
Jelly, crab apple, $\frac{1}{2}$ pint glass, Mrs. H. L. Tankersley, St. Paul.....		1.00
Jelly, blackberry, $\frac{1}{2}$ pint glass, Mrs. M. L. Gantzer, St. Paul.....	2.00	
Jelly, blackberry, $\frac{1}{2}$ pint glass, Mrs. M. T. Flegle, Minneapolis.....		1.00
Jelly, currant, black, $\frac{1}{2}$ pint glass, Mrs. William Teas, St. Paul.....	2.00	
Jelly, currant, black, $\frac{1}{2}$ pint glass, Mrs. Belle Barton, Excelsior.....		1.00
Jelly, grape, red, $\frac{1}{2}$ pint glass, Mrs. William Teas, St. Paul.....	2.00	
Jelly, grape, red, $\frac{1}{2}$ pint glass, Mrs. M. L. Gantzer, St. Paul.....		1.00
Jelly, gooseberry, $\frac{1}{2}$ pint glass, Mrs. M. Britts, St. Paul ..	2.00	
Jelly, gooseberry, $\frac{1}{2}$ pint glass, Mrs. M. L. Gantzer, St. Paul.....		1.00

	1st prem.	2d prem.
Jelly, plum, $\frac{1}{2}$ pint glass, Mrs. M. T. Flegle, Minneapolis.	\$2.00	
Jelly, plum, $\frac{1}{2}$ pint glass, Mrs. Belle Barton, Excelsior ..		\$1.00
Jelly, raspberry, $\frac{1}{2}$ pint glass, Mrs. M. L. Gantzer, St. Paul	2.00	
Jelly, raspberry, $\frac{1}{2}$ pint glass, Mrs. W. S. Newton, Pine Island.....		1.00
<i>Pickles, etc.</i>		
Chowchow, 1 quart, Mrs. M. L. Gantzer, St. Paul	2.00	
Catsup, tomato, 1 quart, Anna B. Kingsbury, Merriam P'k	2.00	
Catsup, tomato, 1 quart, Mrs. H. L. Tankersley, St. Paul.		1.00
Pickles, beet, 1 quart, Mrs. E. A. Carter, St. Anthony Park	2 00	
Pickles, beet, 1 quart, Mrs. H. M. Butts, Hamline.....		1.00
Pickles, cauliflower, 1 quart, Mrs. M. Britts, St. Paul.....	2.00	
Pickles, cucumber, 1 quart, Miss M. Ives, St. Paul	2.00	
Pickles, cucumber, 1 quart, Anna B. Kingsbury, Merriam Park.....		1.00
Pickles, crab apple, sweet, 1 quart, Miss Belle Barton, Excelsior.....	2.00	
Pickles, crab apple, sweet, 1 quart, Mrs. W. S. Newton, Pine Island.....		1.00
Pickles, mixed, 1 quart, Mrs. W. S. Newton, Pine Island.	2.00	
Pickles, mixed, 1 quart, Anna B. Kingsbury, Merriam Park.....		1.00
Pickles, onion, 1 quart, Vina Harden, Hamline.....	2.00	
Pickles, onion, 1 quart, Mrs. M. Britts, St. Paul.....		1.00
Pickles, peaches, sweet, 1 quart, Mrs. Wm. Lyons, Minneapolis.....	2.00	
Pickles, peaches, sweet, 1 quart, Anna B. Kingsbury, Merriam Park.....		1.00
Pickles, tomato, 1 quart, Mrs. Wm. Lyons, Minneapolis..	2.00	
Pickles, tomato, 1 quart, Mrs. E. A. Carter, St. Anthony Park.....		1.00
Pickles, watermelon, sweet, 1 quart, Mrs. S. A. Hartsten, St. Paul.....	2.00	
Pickles, watermelon, sweet, 1 quart, Mrs. M. T. Flegle, Minneapolis.....		1.00
Piccalilli, 1 quart, Mrs. D. F. Polk, St. Anthony Park....	2.00	
Piccalilli, 1 quart, Mrs. Wm. Lyons, Minneapolis.....		1.00
Spiced currants, 1 quart, Mrs. M. Britts, St. Paul	2.00	
Spiced currants, 1 quart, Mrs. H. M. Butts, Hamline.....		1.00
Spiced plums, 1 quart, Anna B. Kingsbury, Merriam Park	2.00	
Spiced plums, 1 quart, Mrs. G. Allyn, Red Wing.....		1.00
<i>Sweepstakes.</i>		
Display of bread, cakes, jellies, jams and pickles, by young lady under 18 years of age, Miss Elsie Williams, St. Paul.....	10.00	
Miss M. L. Allyn, Red Wing.....		5.00
Total.....		\$195.00

RECAPITULATION.

PREMIUMS AWARDED.

Division A—Horses.....	\$2,585.00
Division B—Cattle.....	4,590.00
Division C—Sheep.....	936.00
Division D—Swine.....	845.00
Division E—Poultry.....	396.00
Division F—Dairy Products.....	436.20
Division G—Honey, &c.....	277.00
Division H—Household Fabrics.....	432.50
Division J—Fruits and Flowers.....	777.00
Division K—Vegetables.....	520.00
Division L—Domestic Stores.....	195.00

ANNUAL REPORT

REPORT OF RACES.

STAKES.	Entered by.	Name of horse.	Entrance fee.	Amount of stakes.	Check in settlement.
1 year old trot.....	MINNESOTA BREEDERS-- H. H. Budget..... W. F. Holmes..... W. J. Underwood..... A. Taintor..... J. C. Easton..... Langdon & Douglass... J. C. Seeley..... H. W. Phelps..... A. C. Bruce..... Added money by soc'y.	Holly B..... Ooteau..... Cement..... Lady Nutwood..... Bub..... Frontier.....	\$25.00 25.00 25.00 25.00 25.00 25.00 15.00 5.00 15.00 50.00	\$235.00	\$58.75 58.75 Drawn 58.75 Drawn 58.75
2 years old trot	W. F. Holmes..... B. M. Dodds..... J. Esbjornson..... G. W. Sherwood..... A. Taintor..... B. J. Sawyer.....	Kazon Oossac. Deac'n Halfhill Balder..... Mankato Marco Polo..... Winona.....	50.00 50.00 50.00 50.00 50.00 50.00	605.00 ..... ..... ..... ..... .....	..... 30.25 30.25 121.00 121.00 302.00
3 years old trot	W. K. Walker..... G. C. Cole..... E. M. Dodds..... Brookdale Stock Farm. L. J. Phelps..... G. W. Sherwood..... C. S. Mitchell..... A. Taintor..... J. C. Easton..... W. J. Underwood..... B. J. Sawyer..... E. D. Washburn..... C. A. Comforth..... Added by society.....	K. Phallamont Maud Wright.. Ed. Weaver..... Abdallah See.. Romey..... Maud D..... Maud M..... Delphia D..... Maestro..... Agate.....	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 25.00 10.00 10.00 100.00	645.00	71.65 71.65 71.65 71.65 71.65 71.65 71.65 71.65 71.65
4 years old trot.....	B. J. Sawyer..... Merriam & Long..... F. A. Schultz..... C. M. Liebrock..... Wm. Dunn..... B. F. La Rue..... H. W. Phelps..... H. R. Hymes..... A. C. Bruce..... A. Taintor..... J. C. Easton..... Added by society.....	Hampton Maid La Russell..... Marie Wilkes..	50.00 50.00 50.00 10.00 25.00 25.00 10.00 25.00 25.00 25.00 25.00 220.00	600.00	90.00 300.00 150.00
3 years old pace....	Brookdale Stock Farm. G. W. Sherwood..... A. Taintor..... J. C. Easton..... R. T. Kingman..... W. F. Holmes..... Added money by soc'y.	Nestor..... La Belle..... Vera Capel..... Thistle Dew... Valley.....	50.00 50.00 50.00 50.00 50.00 25.00 197.50	525.00	Drawn 131.25 252.50 Drawn 78.75 Drawn
2:30 pace	Langdon & Douglass... Midway Park stables.. S. B. Bartram..... Abe Roback..... W. E. Lackerby..... L. H. Hoskins..... G. W. Spear..... G. C. Loomis..... L. Keefe.....	Kitty R..... Mac H..... Kenoma..... Mugwump..... Brown Nell..... Marion..... Tartar Chief.. Albert L..... S. G. A.....	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	400.00	200.00 60.00 40.00 100.00

REPORT OF RACES.—Continued.

PURSES.	Entered by.	Name of horse	Entrance fee.	Am't of stakes.	Check in settlement.
2:25 trot	MINNESOTA BREEDERS—				
	Kidd & Edmund	Dick French ..	40.00	400.00	40.00
	V. L. Shuber	Mark Serious ..	40.00		200.00
	J. D. Martin	Maggie Sh'm'n ..	40.00		100.00
	O. J. Evans	Mich'l'n Prince ..	40.00		60.00
	G. G. Matthews	Bell W.	40.00		
	Sam Hewey	King Princeps ..	40.00		
	J. F. Hawkins	Captain Lee	40.00		
2:21 trot	G. P. Smith	Alaska	40.00		
	G. C. Raymond	Phoebe Wilkes ..	50.00	500.00	250.00
	F. H. Colby	Jerry L.	25.00		
	H. W. Phelps	Mayhill	50.00		50.00
	Geo. W. Spear	Greenleaf	50.00		75.00
2:30 trot	Budd Doble	Reina	50.00		125.00
	V. L. Shuler	Robin	40.00	400.00	60.00
	Midway Park stables ..	Warren Park ..	40.00		
	T. J. Dunbar	Legal Test	40.00		Dr'wn
	R. T. Kingman	Buckshot	40.00		100.00
	H. H. Budgett	Alkalie	40.00		
	H. M. Carkey	Alta	40.00		
	G. D. Cole	Kit	40.00		40.00
	J. Easton	Silverwood	40.00		200.00
	G. G. Matthews	Billie W.	Settl'd		
	E. A. Kimberley	Bezant No. 6321 ..	40.00		
	J. C. Kathan	Max O'Rell	Susp'd		
2:37 trot	Jno. T. Cable	Lady Ensign	40.00	400.00	
	G. W. Spear	Senator L.	40.00		
	L. J. Phelps	Jay	40.00		
	J. K. Wheat	Billie Gains	40.00		60.00
	Gleneris Stock Farm ..	Dell	40.00		200.00
	E. E. Cole	Bronco	40.00		100.00
	J. D. Martin	Gold Finish	40.00		
	A. H. Orth	Lullaby	Susp'd		
	P. W. Webster	Westward	40.00		
	C. P. Gove	Alby Gains	40.00		
	J. F. Hawkins	Biddy Born	40.00		40.00
	J. C. Rathen	Mollie B.	Susp'd		
	G. G. Matthews	Nellie M.	40.00		
2:45 trot	J. W. Day	Baywood	40.00	400.00	
	C. P. Gove	Belle Le Croix ..	40.00		
	R. T. Kingman	Mon Dixon	40.00		
	A. Carlson	King Grover	40.00		200.00
	C. D. Andrews	Harrold K.	40.00		
	L. M. Redmond	El Banecia	40.00		
	L. Jacobson	Lousia B.	40.00		
	A. C. Bruce	Guy H.	40.00		100.00
	J. C. Kathan	Maud	Susp'd		
	L. H. Hoskins	Nina Dinsmore ..	Susp'd		
	T. J. Dunbar	Minnie A	40.00		60.00
	J. F. Hawkins	Belle Rouse	40.00		40.00

ENCOURAGEMENT TO THE BEET SUGAR INDUSTRY.

[From Bulletin No. 14. January, 1891.]

MINNESOTA AGRICULTURAL EXPERIMENT STATION.

D. N. HARPER AND W. M. HAYS*

RESULTS OF 1890.

Following is a tabulated statement of the results of analysis of sugar beets raised during 1890:

Lab. No.	VARIETY.	Solids.	Sugar.	Purity.
		Per ct.	Per ct.	Per ct.
1441	ON THE FARM—	17.24	13.42	77.84
1444	Fl. Desprez Richest.....	14.48	11.45	79.07
1445	Improved Imperial.....	15.55	12.28	78.84
1450	Excelsior.....	15.02	13.04	81.91
1451	Dippe's Kleinwanzleben.....	13.72	10.98	79.86
1458	Vilmorin White Improved.....	15.86	11.15	73.45
1472	Lane's Improved.....	15.90	12.55	78.93
1473	Gregory's White Sugar.....	15.95	12.42	77.87
1474	Vilmorin.....	15.00	12.17	81.13
1476	Vilmorin White Improved.....	17.60	14.83	84.26
1477	Simon Legrand's White Improved.....	16.03	14.07	87.80
1478	Bulteau Desprez Richest.....	17.10	14.01	81.93
1457	Dippe's Vilmorin.....	18.14	13.95	76.90
1462	ANOKA—	17.02	14.09	78.63
1463	Department seed, varieties not given.....	18.40	14.99	81.47
1464	Department seed, varieties not given.....	17.16	14.00	81.58
1465	Department seed, varieties not given.....	18.50	14.84	80.21
1466	Department seed, varieties not given.....	17.02	14.42	80.47
1467	Department seed, varieties not given.....	18.14	14.35	79.11
1468	Department seed, varieties not given.....	17.24	14.61	84.74
1469	Department seed, varieties not given.....	17.24	13.39	77.66
1447	NEW ULM—	16.20	12.53	77.34
1448	Fl. Desprez Richest.....	15.50	12.42	80.12
1454	Dippe's Kleinwanzleben.....	20.23	16.83	83.23
1450	HUTCHINSON—	17.46	14.63	83.79
1460	German Imported.....	19.36	15.69	81.04
1461	.....	17.62	14.28	81.04
1475	CLARE CITY—	17.04	14.15	78.87
1455	German Imported.....	19.62	15.16	77.26
1456	LeMaire's Richest.....	21.88	17.92	81.90
1488	FL. Desprez Richest.....	22.00	16.98	77.14
1489	ZUMBROTA—	19.12	14.65	76.62
1446	HASTINGS—	14.00	12.08	86.98
1449	Dippe's Kleinwanzleben.....	12.72	10.23	80.42
1440	FL. Desprez Richest.....	19.00	15.71	82.70
1483	FREEBORN—	16.32	12.59	77.14
1484	LUVERNE—	20.20	13.83	68.47
1487	LE SUEUR—	23.26	17.87	76.83
1502	FOND-DU-LAC—	17.20	11.57	67.25
1503	Dippe's Kleinwanzleben.....	21.58	13.65	63.26
1479	ALBERT LEA—	11.84	8.00	67.56
1480	HALLOCK—	12.04	8.64	71.76
1481	MANKATO—	14.24	10.79	76.26
1482	.....	15.50	11.23	72.47
1490	FL. Desprez Richest.....	17.48	11.86	67.85
1491	Atlee Burpee & Co.'s.....	17.98	12.14	67.54
1492	GLYNDON—	11.15	5.24	55.98
1494	S. LeGrand's White Improved.....	13.82	8.98	65.00
1495	Bul. Desprez Richest.....	10.72	7.19	67.07
1496	Lane's Improved.....	12.10	7.77	64.30
1497	FL. Desprez Richest.....	13.82	8.83	63.80
1498	Will's Seed.....	16.52	12.40	73.91
1499	Dippe's Kleinwanzleben.....	17.38	12.96	74.56
1500	Dippe's Vilmorin.....	17.65	13.37	75.75
1501	WATERVILLE—	20.85	16.98	81.44
	FL. Desprez Richest.....			

* Seed furnished by U. S. Dept. of Agl., but name not given with samples.

SUGAR BEETS IN NEBRASKA.

In 1888 and 1889 sugar beets were raised in various places in Nebraska, the results at Grand Island being particularly good. To show how improvement has progressed with more knowledge of the requirements of cultivation, and for comparison with our results, the following analyses are quoted:

GRAND ISLAND BEETS, 1888.*

SOLIDS.	SUGAR.	PURITY.	SOLIDS.	SUGAR.	PURITY.
Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
17.2	14.9	86.00	16.0	13.71	85.70
18.9	16.1	85.00	17.1	14.20	83.00
19.5	17.5	89.00	18.3	13.10	80.40
21.4	19.2	90.00	18.9	15.80	83.60
19.7	16.7	84.00	18.2	15.20	83.50
21.8	19.8	90.00	18.4	15.90	86.40
18.8	16.4	87.10			

GRAND ISLAND BEETS IN 1889.

SOLIDS.	SUGAR.	PURITY.	SOLIDS.	SUGAR.	PURITY.
Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
23.7	14.14	59	23.7	20.28	86
23.7	16.90	71	23.7	20.29	86
23.7	20.27	86	23.7	21.41	90
23.7	19.10	80	23.7	18.25	77
17.1	13.52	80			

FROM OTHER LOCALITIES IN 1889.*

SOLIDS.	SUGAR.	PURITY.	SOLIDS.	SUGAR.	PURITY.
Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
21.6	13.28	61	19.3	10.13	52
17.0	11.49	68	23.7	15.22	65
23.7	19.52	80	23.7	13.51	58
19.8	9.91	51	23.7	9.69	40
20.4	10.14	50			

*Dr. Wiley, loco citu.

The results of 1890, at Grand Island, Neb., Mr. Oxnard states that the highest percentage of sugar in the beets was a little over 21 per cent., and the average 16 per cent. The yield varies from 10 to 20 tons. We have bought all our beets from framers during the past year. Owing to the excessive drouth in this section last year, the cultivation of beets has not been entirely satisfactory.

Annual Meeting of the Minnesota State Agricultural Society.

ST. PAUL, January 10, 1893.

Pursuant to law, and the regularly published call, the State Agricultural Society convened in room 16, at the state capitol, in St. Paul, on Tuesday, January 10th, 1893, at ten (10) o'clock A. M.

The meeting was called to order by President J. H. Burwell, and the call read by Secretary W. F. Cross.

The minutes of the last meeting were read and on motion approved.

On motion of Frank Warner, of Carver, a committee of seven, one from each congressional district, was appointed by the Chair as follows:

District 1.....	E. T. Stebbins.
District 2.	Lysander Cook.
District 3.....	Joel P. Heatwole.
District 4.....	B. D. Eddy.
District 5.....	D. H. Moon.
District 6.....	John Cooper.
District 7.....	

On motion a recess was taken until one P. M.

Re-assembled at one P. M., according to adjournment.

On motion the following named persons were elected as life members, they being on the board of county commissioners at the time that Ramsey county presented the fair grounds to this society: C. D. O'Brien, George H. Hazzard, Charles T. Konantz and Henry Schnider.

Joel P. Heatwole, chairman of the committee on credentials presented the following report:

Mr. President:—Your committee on credentials find that the following named persons are each entitled to seats in this convention:

Carver County Agricultural Society—Frank Warner, John Hebelson and Geo. Zanger.

Carleton County Agricultural and Industrial Association—C. L. Goodell.

Mower County Agricultural Society—L. D. Carter, Aaron Kimball and A. W. Allen.

Stevens County Agricultural Society—C. L. Brown, J. D. Good and H. W. Stone, Sr.

Blue Earth County Agricultural Society—L. Cook and G. Gutterson.

Rice County Union Agricultural Society—Jos. Roach, Joel P. Heatwole and L. Johnson.

Waseca County Agricultural, Mechanical and Industrial Society—Allen S. Hawkes, H. F. McGonagle and Samuel Leslie.

Le Sueur County Agricultural Society—C. N. Cosgrove, Jno. Wacek and A. B. Moffet.

Steele County Agricultural Society—Clarke Chambers, 3 votes.

Chisago and Pine Counties Agricultural Society—V. D. Eddy, 3 votes.

Faribault County Agricultural Society—J. A. Keister, F. W. Temple and G. W. Buswell.

Dakota County Agricultural Society—B. Stevens, P. F. Bradford and J. R. Conway.
 Swift County Agricultural Society—H. W. Stone, 3 votes.
 Hastings Union Industrial Association—John Byers, A. N. Johnson and A. D. Aldrich.
 Wright County Agricultural Society—W. H. Hoar.
 Anoka County Agricultural Society—Thos. Coleman, C. S. Guderian and Jno. Hunter.
 State Poultry Association—R. C. Judson, proxy for president.
 Freeborn County Agricultural Society—Dor. K. Stacy, 2 votes.
 Winnebago City Driving Park and Live Stock Co.—G. D. Eygabroad, M. H. Oliver and C. H. Patlen.
 Dodge County Fair Association—B. F. Chase, H. B. Niles and A. A. Ca.
 Douglass County Agricultural Society—James H. Letson, 3 votes.
 Becker County Agricultural and Driving Association—M. S. Converse and G. W. Taylor.
 Minnesota Beekeepers' Association—J. P. West.
 Farmers Alliance—A. L. Stromberg.
 State Forestry Association—J. H. Stevens.
 State Dairymen's Association—T. L. Haecher.
 Wilkin County Agricultural Society—Peter Hansom.
 Goodhue County Agricultural Society—W. C. Rice, S. B. Barteau and B. C. Grover.
 Martin County—Frank A. Day.
 And all life members.

J. P. HEATWOLE,
 D. H. MOON,
 JOHN COOPER,
 H. W. STONE, SR.,
 H. EDDY.

OFFICERS AND BOARD OF MANAGERS FOR 1893.

President,	J. H. STEVENS,	Minneapolis
First Vice-President,	ED WEAVER,	Mankato
Second Vice-President,	DR. J. H. MURPHY,	St. Paul
Sec. and Supt. of Grounds,	W. F. CROSS,	Red Wing
Treasurer,	A. B. MOFFATT,	LeSueur

BOARD OF MANAGERS.

CLARKE CHAMBERS, Owatonna,	Term expires 1894
C. N. COSGROVE, LeSueur,	Term expires 1894
W. M. LIGGETT, Benson	Term expires 1895
J. H. LITSON, Alexandria,	Term expires 1895
J. J. FURLONG, Austin	Term expires 1896
E. W. RANDALL, Morris	Term expires 1896

EXECUTIVE COMMITTEE.

J. H. STEVENS.

ED WEAVER.

C. N. COSGROVE.

CHEESE MAKING.

FERGUS FALLS, MINN., Feb. 13, 1893.

It is the usual custom when giving an article on cheese making, to give the process for making up good milk only. But the few remarks for which I am giving space, will be on but one of the four entries of cheese which I had at the State Fair, season of 1892, and was made from milk that was in bad condition, before it came under my control. This was in the extreme warm weather in June, and some of the milk on this occasion was somewhat tainted, while the other was over-ripe, and well developed with acidity, as it was received at a temperature of 84°. It was colored at the rate of one-half ounce to every one thousand lbs. of milk, and after being thoroughly stirred in, a sufficient amount of rennet was used, to have coagulation commence in from five to eight minutes. After a thorough stirring the vat was covered, and remained perfectly still for thirty minutes from the time the rennet was introduced which was followed by cutting, which was done thoroughly and completed at once. Care was taken to see that it was cut even and alike, so that the heating would be uniform, and the action of the rennet be on all alike.

Stirring immediately followed, in a slow and careful manner in order to give each kernel of curd a chance to heal over, which forms a skin or film that acts as a strainer, and allows the whey to pass out and retains the butter fats. After hand stirring for ten minutes, a small amount of steam was applied, and the temperature gradually raised to 90°. By heating too rapidly on the start, the film that should act as a strainer will become glazed, and the whey will have no way to escape only as the curd is broken, when the butter fats will pass out with it. The heating was still continued, and done so with more rapidity until it reached a temperature of 96°. When it was tried by the hot iron test and found to have one-fourth of an inch of acid, when the heating was continued still faster and farther, until it had reached 120°, when it was again tried and found to have nearly one-half of an inch of acid. The whole time occupied in heating, was forty minutes. The curd was thoroughly stirred until it had reached that stage of contraction where it would not pack, and was all cooked even and alike. In one-half hour from the time the heat was shut off, it was again tried and found that the development of acid had made but little progress, and would not show to exceed one-half inch by the iron test.

The whey was then drawn, and salted immediately at the rate of two pounds of salt to every one thousand pounds of milk. The salt was thoroughly mixed with the curd, and then the curd was baked in the upper end of the vat, and allowed to remain there an hour or so, or until it had a mellow appearance, and a fresh smell like new buttermilk. The curd was covered so it would not cool down so low as to accomplish no purpose and was stirred occasionally so it would not pack, and so the activity of the rennet would be on all alike. After hooping the curd, the pressure was at first slow, and gradually increased, and was thoroughly pressed for sixteen hours. Some of the cheese were placed on the factory shelves with the usual temperature, which I found would not get sharp as soon as these made with the lower temperature with the same amount of acid, and the cheese were less porous and more nutty. The remainder of the cheese were placed in a cool cellar with a double set of cloth all

over them. The cheese soon became moldy on the outside, but by removing the outer cloth on the third day of September, the cheese were perfectly clean and firm, with a milk nutty flavor. Following is their score of test made by Dr. W. S. Eberman, *Chemist*:

Water.....	27.62
Fat.....	37.82
Caseine.....	34.46
Total solids.....	72.28
Fat, to total solids.....	52.32

THE FARMER AND THE HOG.

Having been identified for a quarter of a century with the agricultural interests of Minnesota, and having many opportunities to observe the condition of our farming class of citizens, and to note from time to time the glaring mistakes that have been committed, is the only incentive that prompts me to "rush into print," in order, if possible, to say something that will prove beneficial to our farmers.

Minnesota is a great farming state, and there are no material interests within its border that will contribute to the general prosperity like success among our farmers. We have a fine climate, good soil, and all the natural conditions for profitable and remunerative farming; the only drawback is an apparent determination among our farmers to produce nothing but *wheat* and small grain, wheat practically being the principal product of the farm.

From a close observation for twenty-five years, I am fully convinced that no farmer can produce wheat, exclusively, for twelve consecutive years without going into helpless bankruptcy.

The crying need of the times, is *diversified farming*. Every farmer should raise at least ten or twenty good hogs, and this can be done on every farm in Minnesota. A great many farmers seem to think that in northern Minnesota, where corn may not grow successfully, that hogs cannot be successfully grown, but such is not the case. I know several of the most prosperous farmers in that locality, who for years past have raised the finest kind of hogs, without corn—the hogs consuming the screenings of the farm, and "topping off" on barley. "Barley hogs" are a success; try it and be convinced. Within the past few years a market at South St. Paul has been created for all the hogs Minnesota can produce. Hundreds of thousands are bought and packed every year, and the demand is increasing.

Good brood sows can always be bought at South St. Paul, so that farmers may make the experiment with little trouble. A year ago, I published an article on hog raising and predicted the present low price of wheat and the corresponding very high price of hogs. A good hog to-day is worth from eighteen to twenty dollars. It only requires ten months to grow a hog. Every farmer in Minnesota should put forth an effort to secure some good breed of hogs, and make an effort to advance his own financial interests by diversifying the products of the farm.

Very truly,

R. C. JUDSON.

MINNEAPOLIS, MINN., December 17, 1892.

Wm. F. Cross, Secretary State Agricultural Society, St. Paul, Minn.

DEAR SIR:—Replying to yours relative to the culture of Irish potatoes in what is known as “the potato district,” lying just north of the cities of Minneapolis and St. Paul about forty-five to fifty miles, we beg to submit a few facts which we hope will give you a just appreciation of this wonderful district, whose record, new as it is, is probably not equalled by any similar district in the country. Bear in mind all the time that those fertile lands that have made this wonderful record are the cheapest in the State. They can be purchased at a very low price; not one acre in ten has been improved, and when you remember that six years ago the culture of potatoes was commenced in this district and has grown to such proportion, is it not surprising that these lands should be so cheap? Thousands of acres along the line of the St. Paul and Duluth road can be purchased from private parties at from \$2.50 to \$4.00 per acre. They are easily cleared, being covered with a light growth of oak timber, and can be planted with potatoes the first year.

The record of the rain-fall of this district, kept for several years by the government, shows that the rain-fall as well as the sunshine comes about the right seasonal period for the perfect growth of this crop.

During the past six years, the seasons of 1887, 1890 and 1892 were partial failures throughout the United States, yet in this district there has never been a failure, and the average yield per acre for those three years was about one hundred and forty bushels to the acre, and the average yield for the past six years has been one hundred and fifty-five bushels per acre; many acres have yielded three hundred to four hundred bushels per acre.

The average yield per acre of potatoes the United States over, this year is sixty-two bushels, and for 1890 was fifty-seven and one-half bushels, and the average for ten years for the United States was eighty bushels per acre. Last year, a phenomenal year for this crop, showed the average per acre was a little less than ninety-four bushels. Note, therefore, that an acre of this famous Minnesota district spoken of, is worth on an average more than two acres of the average land, yet they cost probably not more than one-fifth the amount of the average lands.

In 1886, we paid in this district F. O. B. cars direct from the fields forty cents per bushel; in 1887 we paid direct from the fields fifty to sixty cents per bushel, averaging fifty-five cents; in the spring of 1888 we paid as high as ninety-three cents F. O. B. cars; in 1889 we paid twenty cents; in 1890 we paid direct from the fields an average of fifty-five cents and in the spring as high as ninety-five cents; in 1891 we paid from the fields eighteen to twenty cents. This was the heaviest crop year since the government kept a record, yet we took out all the potatoes at from eighteen to twenty cents in the fall, to twenty to twenty-eight cents in the spring.

This year we have paid from forty cents early in the fall to fifty-seven cents later in the fall from the fields F. O. B. cars.

Potatoes can be raised at a cost to the farmer of about thirteen cents per bushel on these lands, and you can, therefore, figure for yourself whether there is money in it or not.

As to the quality of these potatoes, no better stock is grown in the world. We put over 1,000 cars into the New England states in 1889 against the famous Aroostick county Rose and Hebrons. Eastern people thought the Maine potatoes could not be equalled in the world, and at first they would not take our potatoes without a discount of ten to seventeen cents per bushel, but along toward the latter part of the season, the quality proving to their satisfaction, they took our potatoes at the same price as the famous Maine stock, and was glad to get them, many people preferring them.

In Texas the farmer wants nothing but Minnesota Red Rose for seed. Along the river bottom country they want the Minnesota Ohios in order to insure them the right kind of a crop, and throughout all the states they are favorably known, no potatoes bringing a higher price than the best Minnesota stock.

Our accurate knowledge pertaining to this crop, except the actual cost of raising it, induced us to purchase and fit up the largest and probably the best potato farm in the United States at a cost to us of about \$15,000, the original land of which cost us but \$1,000, and the investment has been eminently satisfactory to us.

The profits made in raising this product in the district spoken of above the last six years were such that, were it generally known, would open the eyes of the farming world.

As to the increase of the crop: Six years ago there was raised on the line of the St. Paul & Duluth Ry. about 150 car loads, the major portion of which was purchased by the writer, it being his first season in the potato business in this locality. There has been a steady increase until this year the crop of the road is about 2,500,000 bushels. There are thousands of acres just as desirable lying adjacent to those cultivated and further north, along the line of the road, and we believe in five years there will be 5,000,000 bushels of this product raised and marketed at a profit from this district.

With so many potatoes raised for market, there are a great many small and inferior potatoes unfit for consumption, to take care of which the writer and others erected four starch factories at different points on the road; which factories pay eighteen to twenty cents per bushel for the culls, and work them up into starch.

Other vegetables, onions, cabbage, beets, carrots, etc., grow fine and will eventually be big crops.

There will be paid this year to the farmers of Chisago and Isanti counties over \$1,000,000 for potatoes alone.

Our house will handle this crop year 1,500,000 bushels of potatoes, and the supply is not great enough for the increasing demand, therefore, you may assure yourself of the permanence of this business, for the profits in the culture of the crop are large, and the outlets are equally large. It has come of natural causes and will abide with us, growing with the turn of seasons.

More could be said, but hoping I have sufficiently covered the ground, I am, dear sir,

Yours truly,

S. H. HALL,
of S. H. Hall & Co.

THE
FOREST TREE PLANTER'S
MANUAL.



EIGHTH EDITION.

By J. O. BARRETT, Secretary of the Association,
MINNEAPOLIS, MINN.

Published by the MINNESOTA STATE FORESTRY ASSOCIATION, in
accordance with an act of the Legislature, approved
April 21, 1891, for free distribution to
any citizen of Minnesota.

MINNEAPOLIS:
HARRISON & SMITH, STATE PRINTERS.
1893.

SECRETARY'S REPORT.

The Outlook.

His Excellency, Hon. Knute Nelson, Governor of Minnesota:

DEAR SIR.—In the act that furnishes the State Forestry Association with the "sinews of war," occurs this passage:

"For the Minnesota Forestry Association, to be expended by said association for the promotion and encouragement of raising forest trees on the open prairie, for the free distribution of forest seeds and plants to such citizens of the state as will follow its instructions, for the gleaning of facts in relation to the extent and damage done by forest fires, and the effects of devastation upon our water systems and agricultural industries, for the projection of practical methods by which to prevent and extinguish such fires, and by which also to revive the growth of young timber trees on the denuded, non-agricultural sections of the state, and in the preparation, publication and free distribution throughout the state of new editions of the "Forest Tree Planter's Manual" together with other forestry literature, containing plain and concise information for the people upon practical forestry, and in the payment of actual necessary expenses of the officers, three thousand dollars (\$3,000)."

Herculean indeed is the task assigned us; but the co-operative interest your Excellency has exhibited and that of the legislators who determined the association of twenty years standing shall live to perform its beneficent mission, together with that of the many friends over the state who have stayed up our hands when weary in, but not of, our work, give us new courage to persevere until we have conquered even a climate.

EXPENSE ACCOUNT.

Election of officers, Feb. 3, 1891.

Feb. 3, 1891, Forestry Association by funds in treasury \$131.93

EXPENSE.

March 19 to April 25, 1891, postage, circulars, letter heads, etc.....	\$54.93
April 25, 1891, labor services six months	77.00

\$131.93	\$131.93
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Aug. 1, 1891, Forestry Association by legislature appropriation \$1,500.00

EXPENSE.

Aug. 10, 1891, printing circulars.....	\$8.00
Aug. 17, 1891, personal labor.....	50.00
Aug. 17, 1891, postage.....	10.00
Aug. 19, 1891, Harrison & Smith, printing 5,000 copies Forest Tree Planter's Manual.....	75.00
Sept. 1, 1891, personal labor during August.....	100.00
Nov. 2, 1891, personal labor September and October. .	150.00
Nov. 2, 1891, Co-operative Printing Co., circulars.....	3.00
Dec. 2, 1891, personal labor during November.....	100.00
Jan. 1, 1892, personal labor during December.....	100.00
Jan. 5, 1892, attending American Forestry Association Washington, D. C.....	60.00
Jan. 8, 1892, postage.....	15.00
Feb. 3, 1892, personal labor during January.....	100.00
Feb. 3, 1892, circulars.....	6.50
March 1, 1892, personal labor during February.....	100.00
April 1, 1892, personal labor during March.....	100.00
April 1, 1892, postage.....	15.00
May 4, 1892, personal labor during April.....	100.00
May 19, 1892, 500 letter heads and envelopes.....	17.50
June 7, 1892, personal labor during May.....	100.00
July 8, 1892, personal labor during June.....	100.00
July 8, 1892, postage.....	20.00
June 12, 1892, L. H. Wilcox, attending committee meetings.....	14.85
July 13, 1892, postage.....	20.00
Aug. 1, 1892, personal labor during July.....	100.00
	<hr/>
Balance in treasury.....	\$1,479.85
	20.15
	<hr/>
	\$1,500.00 \$1,500.00

Average personal expense per month for the 18 months, commencing Feb. 3, 1891 and ending Aug. 1, 1892, \$70.95.

SUMMARY OF WORK DONE.

During the 18 months ending the first fiscal year, 10,000 of the two editions of the Forest Tree Planter's Manual were issued and circulated over the State; the same were printed in the reports of the State Agricultural Society, and a special forestry edition in the annual of the Farmers' Institute, all of which, including the forestry department under my charge in the report of the State Horticultural Society, and other forestry pamphlets donated by Prof. W. H. S. Cleveland and Prof. B. F. Fernow, Chief of the Forestry Division of the Department of Agriculture at Washington, D. C., amount to over 50,000 copies freely distributed by mail and other methods.

With our membership fees we were enabled to distribute large quantities of evergreen plants and deciduous seeds to various parts of the State, the reports of which thus far received indicate a general success in their growing and doing well.

It is due to credit to add, that The Progressive Age, Farm, Stock and Home and Northwestern Agriculturist, all published in Minneapolis, and Northwestern Farmer, St. Paul, have allowed me special departments in their columns in all their issues for instruction in practical forestry, thus reaching through these and other channels, weekly, monthly and semi-monthly, 500,000 readers.

The dailies of the Two Cities and the weeklies of the country have generously allowed my forestry articles to be published in their columns. Without exception they have exhibited an unfaltering co-operation in the work to which I have devoted all my time and energies.

GROWTH OF FORESTRY SENTIMENT.

With comparatively but little means in hand, antagonized by parties ignorant of our objects, our association has patiently battled away, and now stands on vantage ground. In state conventions two political parties of our state this year planked the claims of forestry in their platforms, helping us to quite an extent. The other parties are certain to follow example, making the movement non-partisan, where it has ever stood. Farmers, lumbermen and other business and professional citizens, are earnestly demanding the establishment of a more economic system of forestry. The antagonists of it, as in other states, are beginning to discover that the movement is of great and practical importance to perpetuate our lumber interests, conserve our waters, protect our crops and secure healthful conditions and beautiful environments for all our people.

With high respect, Yours for the Trees,

J. O. BARRETT,

Secretary State Forestry Association.

If every land-owner could be made to realize the fact that our forests yield a revenue to the country immensely greater than the combined wealth of all our mines, surpassing even the value of our great corn crop by nearly 200 millions of dollars, and above all that this enormous timber-harvest, which for the last census year amounted to 700 millions, involved a sacrifice of forest wealth, chargeable to carelessness, to nearly one-half as much more, it would be a powerful incentive to reform; and the improvident greed which, for want of a better market, destroys a two-dollar tree to get a 35 cent railroad tie, would become a thing of the past.—M. G. KERN, St. Louis, Mo.

Utility With Beauty.

Millions upon millions of forest seeds fall upon the ground, scattered hither and thither by the winds, few of which will ever take root. Not one person in a thousand has ever thought of gathering them for planting and culture or for the market. The time is coming when the harvesting of such will be a paying business, and our business is to develop it. Our seeds are wanted in the South, but the seeds of the South are not wanted by us. Climatic conditions inhere with the germ, and are transmissible. It has been repeatedly demonstrated that northern grown seeds for northern planting, are the hardest and most reliable.

Every farmer should have a tree nursery of his own. Economy is thrift. With right treatment, he thus has the best of seedlings at the least cost. No farmer should think of raising a crop of cereals or vegetables without a crop of trees to protect them and furnish them with humus and moisture. On an average, from year to year, a forest-protected crop gives at least a quarter more yield than one raised with equal culture on the open, wind swept prairie.

METHOD OF PLANTING TREES.

Do you propose to have a tree nursery? All right. Of course you have the seed on hand. Is your ground plowed deep, say ten or twelve inches, and pulverized fine as for corn? All right again. Sow them in long drills so you can use the cultivator and save time. Cover the box elder, the ash, the maple about an inch; three-quarters is safe. When the basswood seeds are ripe, gather them sure, for the tree is very valuable for honey and manufacturing purposes. It will grace the lawn, fringe the waters with beauty and sweetness, and be an Eden tree in the wood-lot. We ought to raise this tree all over the Northwest by the thousands and millions. Sow them just as soon as gathered and between rows of box elders to shade and succor them when young and tender. Serve the maples the same. The "fittest" then, is what we need—the basswood, the maple, the oak, the butternut, the hickory, the walnut, the pine and other evergreens. The nut seeds may be safely planted in November, where they are wanted for a perpetual legacy to home and country. Plant, say, eight feet apart, between rows of box elders for shelter, which can be removed when the precious candidates are strong enough to support themselves. Cover the nuts about two inches. Seeds designed to be kept over winter should have a dry, cool place. Some sand mixed in will be a "savor of life."

BUY THE RELIABLE.

If from necessity you have to buy seedlings, buy of reliable nurserymen who raise them in the Northwest. The nearer home the better. Select one-year-old trees; they do better. Where you ship in from far distances, the trees are liable to heat, and then you lose them and your money too. The cheapest is the best, though it cost a little more. In our dry climate spring planting is safer than fall planting.

HEALING IN AND PLANTING.

But buy in the fall and ship in immediately, so that your plants can be ready early in the spring and in the best condition. When in hand, select a well drained spot; dig a trench, say, six or more inches deep, according to the size of the plants; throw the dirt back on a slant, cut the bands

without fail, lest the trees may heat; spread thin in the trench; sift in dirt fine and snug to the roots; throw on more dirt and press it down gently; pour in water if the ground is dry; fill up, and thus you have another trench for the next instalment, all in shingle fashion. Cover thin on the tops. Now your plants are safe and the broken points of the roots will be partly healed over in the spring.

When the ground is warmed up and moist, plant the trees well down and press down gently but effectually. Cultivate briskly until the middle of July and let the cells ripen up for the winter ordeal. The weeds will trap the snow and otherwise protect your plants.

NATURAL GROUPINGS.

Most all of us have made a mistake in putting our trees in squares or blocks like a city. This is stiff, artificial, unnatural, unseemly. Mountains lie in clusters and curves; so do the valleys; so do the clouds move and the rivers, and this is why they are picturesque. Let us copy nature in landscape architecture. Plant our trees on the more waste places, on the sides and crests of the hills, along the windings of the brooks and rivers and lakes. Curve them where they will look best, where we can have gaps to see through to what is beyond, where we can have large spaces for the fields and orchards and gardens, where our crops can be protected, breaking the wind at different points. Draw about the buildings the brightest birches, the cleanest elders, the most golden willows, the most symmetrical evergreens, the hardiest and most beautiful shrubs and vines and flowers, arranged in natural groupings, climbing over stones and walls and trellises. The useful thus becomes more useful for its natural beauty and home-like environment.

EVERGREENS FOR SHELTER BELTS.

Nothing is more beautiful and home-like than evergreens on the lawn. They should be planted also around the stock yard, the barn and other out buildings to serve as protection and hide deformities. They may be planted here and there through the orchard with very great advantage.

SCREENS.

Among the hardy sort of evergreens are the Scotch and Austrian pines, the Norway spruce, Douglass spruce and our own native white spruce, common red cedar and arbor vitæ, also our white and red pines, and the jack and bull pines. A single row of these trees, mixed for variety and mutual support, will afford much protection from the winds in a few years; but two or three rows are far more effective. Do not set them too near the orchard; give them room for the ample ventilation to the apple and plum trees; two rods are not as serviceable as three, and four rods are better. Alternate them, *quin cunc*, so that every tree shall be opposite the space in the next row. Plant them eight or ten feet apart.

HEDGES.

Do not set them close to the shelter belts, especially if allowed to grow high. Put them at least two rods outside the shelter belt.

MOST RELIABLE.

Evergreens from the wild forest are not as well rooted as those from the nursery; but they can be made to live with proper care in plucking up, packing and planting. In no case should they be allowed to dry the least. Keep the roots moist; never expose them to the sun or wind for a moment. Drying coagulates the juices, forms a gum, stops the circulation.

TIME TO PLANT.

Always in the spring; don't wait till the trees are growing; take them up and replant before the buds have largely swelled.

RIGHT SELECTION.

You want fine trees for the future; then be content with small ones, those that are three or four years old. They cost less and stand better chances to live than larger ones, and will soon overtake the large. This rule applies to all trees we plant and righteously care for. Your best is from the nursery that have been at least twice transplanted.

PLANTING.

Spread the roots out natural and do it quick; press the fresh soil in close; have the plant at least put down one inch deeper than it grew in the nursery; water well at first if the ground is dry; leave a film of unpressed dirt on the surface; avoid putting any mulch in the hole, but spread on the surface out from the trunk; never dig deep among the roots of your trees; keep out weeds and binding grass. Your duty well done, the Great Gardener will give you sunshine and rain, and you will have "treasures laid up in Heaven," for you have improved the healthfulness and beauty of the world we now live in.

EVERGREEN SEED.

Frequent inquiry is made how to raise evergreens from seed, and the statement generally is that the effort is a failure. It is indeed a thankless task unless one has the facilities and plenty of time for management. Prof. S. B. Green, of our Experiment Station, St. Anthony Park, makes a success of it, because he makes it a business and knows how. I herewith summarize his method for the benefit of those who would like to try. It pays a fellow to see the little things "bopeep," and grow under our fostering care.

1. Use a rotten, dry, sand-leaf mould for a seed bed.
2. Select a location for the bed away from woods or places where mice and squirrels abound. These depredators like such seed.
3. Sow the seed broadcast and sift on a covering of about an inch for the hardy evergreens, having large seeds such as the pines and the Norway spruce.
4. Arrange so you can shade at pleasure. Raise up the side boards about six feet for free circulation of air. Use willow brush or laths for shading. If laths, then nail about two inches apart, and shade north and south, so the shadows will pass east and west on the beds. Protect thus from the sun in very bright or long continued sunny weather both in summer and winter. After ordinary rains take off the shades, and not put on again until the bed is well dried off.
5. The greatest danger is when the plants are young and growing fast, especially when the weather is warm and moist.
6. "The damping" of evergreens in the seed bed may be greatly reduced, if not entirely prevented, by covering the seed bed with sand or other mulch.

Durability of Timber.

With much rotting of timber and fence posts, there is a necessity of cutting large amounts of wood, involving faster deforestation, to say nothing of the vexation and loss by extra labor. Various expedients are suggested and employed that often prove injurious to the timber's preservation. Sometimes men paint green or badly seasoned wood, and thus hasten rather than prevent decay. We must understand that the decay of wood is traceable to the fermentation of the sap, probably a growth of bacteria or fungi. To forestall such results, the sap in the wood must be dissolved or dried out, thus preventing moisture from entering again. Timber will not rot if kept absolutely dry, or entirely submerged in water. It will be noticed that wood decays the faster on the side that lies on the ground. The looser, moister and warmer the soil, the more rapid is the decay. Dry rot obtains in woods that have no or poor ventilation, observable in white patches at first that change into brown or gray. A drying-out process, good ventilation and isolation from moisture will remedy this unhealthy condition. Heart-wood is more durable than sap-wood; but season the sap-wood and the difference disappears. Generally the heavier woods are the more durable.

TIME OF FELLING.

The time of felling has much to do with the durability. Early winter, say in December, when there is the least fermentable sap, has the preference. Then the timber will season with less care, more slowly and evenly. If you cut the wood "in the sap," of course fermentation occurs, inviting the attacks of insects, and necessitating more care in seasoning. A rapid seasoning produces an outside seasoning which creates a sort of coating that envelopes an unseasoned interior, thus evoking a "heart decay," so to speak. If you cut the tree in the leaf, let it lie at full length until the leaves are withered, say two or three weeks, before cutting to size.

CHECKING.

Removing the bark from the felled trees aids the seasoning process, but not in the standing tree. The peeled log will season faster if lifted from the ground on blocks. Shield it as much as possible from sun and rain in some dry, airy place. Wood is very apt to warp and split if dried too rapidly; then the cracks collect moisture, inviting more rapid decay. Checking or cracking of logs may be prevented by coating the ends with oils. Covering them with linen cloth and paper so as to lessen evaporation will be a help. Side-cracks should be filled with tow or cotton. Slow seasoning is the safest. Twelve or eighteen months will do for most purposes; but for special work, from two to ten years is required.

"The best method of obtaining proper seasoning without costly apparatus in shorter time, is to immerse the prepared timber in water, from one to three weeks, to dissolve the fermentable matter nearest the surface. This is best done in running water; if such is not at hand, a bath may be substituted, the water of which needs frequent change. Timber so treated, like raft-timber, will season more quickly and is known to be more durable.

"If practicable the application of boiling water or steam is an advantage in leeching out the sap.

"Good coatings consist of oily or resinous substances which makes a smooth coat, capable of being uniformly applied; they must cover every part, must not crack, and possess a certain amount of plasticity after drying.

"Coal-tar, with or without sand or plaster or pitch, especially if mixed with oil or turpentine and applied hot (thus penetrating more deeply), answers best. A mixture of three parts coal-tar and one part clean unsalted grease, to prevent the tar from drying until it has had time to fill the minute pores, is recommended. One barrel of coal-tar (\$3 to \$4 per barrel) will cover 300 posts. Wood-tar is not serviceable because it will not dry.

"Oil paints are next in value. Boiled linseed oil or any other drying vegetable—not animal—oils, are used with lead or any other body (like pulverized charcoal) to give substance. Immersion in crude petroleum is also recommended.

"Charring of those parts which come into contact with the ground can be considered only as an imperfect preservative unless a considerable layer of charcoal is formed, and if it is not carefully done, the effect is often detrimental, as the process both weakens the timber and produces cracks, thus exposing the interior to ferments."

A Suggested Forest Management.

BY PROF. B. F. FERNOW, CHIEF OF THE FORESTRY DIVISION OF THE AGRICULTURAL DEPARTMENT.

Under present regulations lumbermen and most *bona fide* consumers can secure public timber only by circumvention, direct or indirect, of the law. As a consequence fraud and trespass, wasteful cutting, illegal acquisition of lands and material, destruction by fire and abuse of the administration if it attempted to execute the law, have been the rule.

The management of this part of the public domain has been denounced as unsatisfactory by every administration for the last thirty years, without securing legislative redress.

A tentative change was inaugurated by the law of March 3, 1891, which gave power to the President to reserve timberlands for forest purposes. [Here the author mentions the acres reserved, under President Harrison's administration.] It is desirable that this policy be extended to the effect of withdrawing all public timberlands from disposal by sale or entry and substituting disposal of stumpage by licenses under certain regulations somewhat similar to the Canadian systems, providing at the same time for a rational method of protection and eventually of a regulated forest management.

In such legislation the needs of the resident population as well as of the lumber business must be duly considered and the *onus* of protecting the property against destruction and devastation placed where it belongs, namely, upon the government, which representing the community, must be responsible for all interests of the future. To aid in the protection against fire and trespass, the army might be used, a measure which has been most successfully employed in the National Parks.

FUTURE LUMBER INTERESTS.

It would appear that this method of protecting the communal interest in forests would be at the same time advantageous to the future of the lumber business. All lumbermen, therefore, interested in those sections of the country where public timberlands are situated and especially all lumbermen's associations should be concerned in the passage of such legislation by which in part at least their own pocket interest and that of the community are harmonized, and an example of what rational forest management contemplates may be established for imitation by private forest owners.

Water Reservoirs.

The upper Mississippi river generally dries up during August and September; in the latter part of October commences flowing again. Similar phenomena are no doubt occurring elsewhere in the Northwest. It is no new thing of late years. How are we to account for this intermittent action? It is traceable, doubtless, to the fact that, during the hottest part of the season, when vegetation needs the most nutrition, the greater part of the moisture is absorbed by the roots and leaves and thence reconstructed or stored up in the plants and fruits, and the balance evaporated upon our thirsty winds, thus so monopolizing the water, scarcely a drop remains in the beds of some of our once living streams and lakes. After our crops, cereals especially, are matured, no more moisture can be utilized in that direction, being no longer needed, and the evaporation is correspondingly lessened because of the lowering of the temperature. This transition from growing to harvest conditions, together with colder ground and air, enables the springs to recuperate themselves; hence they flow again.

A WATER FAMINE.

What is the inference from these data? Evidently that there is not enough water filtrating up capillarily from below the soil to supply our agricultural vegetation and at the same time keep our streams and lakes flowing when most needed. If these conclusions are correct, it follows that with larger increase of agricultural productions, we may have a water famine, as compared with our needs, and that our soil and air will become drier and drier as the years come and go, unless we early forestall such calamities.

OVERGROUND RESERVOIRS.

There is just so much water in the world, enough, doubtless, to sustain life in its civilized conditions, could it be economically utilized. With the destruction of our native forests come destructive floods, whose waters are hurled back into the sea whence they came. Often the accumulations of a whole winter of snow and rain turned to ice are thus needlessly wasted, which if saved would be quite enough to feed our vast fields of crops. Under these calamitous circumstances which we have engendered by deforestation and want of forests where they can best serve our purpose, it is our necessity to build overground reservoirs of

great dimensions, into which the spring waters from the melting snow and ice could flow, to be thence forced up to supply the people with their flocks and herds, and irrigate our fields and gardens.

DAMS FOR IRRIGATION.

Our prairie sloughs and coolies and mountain canyons can, by suitable dams, be used to hold back the wasting waters of spring for irrigation when most needed. Would we not thus be amply supplied with water far better for our purposes than artesian, which is more or less mineralized with properties illy fitted for vegetable growth? The advantages accruing would pay a thousand fold. This, with ample forests on the poorer sections, is certainly a feasible undertaking and pre-eminently practical.

Forest Fires.

Look at the burnt districts where thousands upon thousands of acres of valuable timber are utterly ruined, the very ground literally fire-eaten, leaving nothing thereon but leafless, black stubs of trees with scrubby poplars and tangling briars! People do deplore such calamities, lumbermen especially, but nothing is done to avert them. It is indeed saddening to witness the ruin wrought. Who sets these fires? Not the lumbermen, but some hunters and poachers are largely responsible, and homesteaders, too. A settler wants to clear his "felled piece." He waits till the stuff is well dried. He touches the combustible with a match and away the fire-fiend flies on ruin bent; till millions of valuable property, and not a few homes and lives, are destroyed. If this is not murder in the first degree, what is it? And some people look on, completely dazed, feeling a sense of superstitious awe, and are habitually if not religiously opposed to any interfering with the ways of Providence to punish folks for their sins!

PROPOSED REMEDIES.

We have so large a territory of woodland, most of which is sparsely settled up, any attempt to master the forest fires seems to many impracticable. But greater victories than these have been achieved in our age of progress. When such fires are in full headway, it is next to impossible to arrest them. Prevention is the best remedy. It is not to be expected that all fires will be prevented; but it is certain that with vigilant attention to the matter, they can be at least reduced to a minimum. Men prowling through the woods in the dry seasons, having no interests at stake, are careless with the camp fires and their pipes. A severe law is absolutely necessary that will force strict guard over the forest property, compelling careless hunters, fishers, and every other class of wanderers and settlers to obey governmental orders. The Forestry Association tried hard to induce the late legislature to enact some such law initiatory to protection against the careless or wanton setting of fires to our woodlands, but the matter was allowed to go by default. The result shows the necessity of educating the masses up to a practical comprehension of the situation. The Canadian government has quite a successful law in operation, respecting forest fires, so has New York, Maine, Pennsylvania and some other States. Minnesota needs one more perhaps than some of the prairie States. It is to be hoped that something will be done at our next legislature.

A SOLDIER FORCE.

If we must have soldiers to keep the peace, why not in a time of peace put them to the most practical use? A test of this kind has already been made in the Yellowstone and other parks of the mountainous West, and has proved an admirable success. A large portion of our woodland territory still remains a public domain. Under the Reserve System now in agitation in our State, as well as elsewhere, such a police could have full control of the forests in time of danger. Strips of land could be burned off or otherwise cleared of combustible stuff, connecting bodies of water, thus limiting the spread of fires within special areas. Highways could be built on the section lines and kept clean from dry grass. Careless men in the woods would be on their guard when they know armed soldiers are patrolling over the territory to arrest the guilty party.

In Scandinavia and other parts of Europe, forest fires are rare exceptions, while with us of "free America" it is a rule of sheer abandon. It is certain that lumbermen, railroad men and others having investments in timberlands, are ready to co-operate with any movement under governmental management, that is equal or even partially equal to the necessity of the situation.

Our Parks.

Parks are perpetual institutions. While they answer as protection against the blighting effects of hot and cold winds and help in promoting humidity to a great extent, they are rural resorts and breathing places in summer, and instrumentalities of social amenities. The merry meetings under the embowered shades enable us to throw off care and recuperate for greater victories in the battle of life. Once popularize the park enterprise, and farmers, now so isolated and estranged from each other, will soon discover that the farm is not properly managed nor fit to live on and by, until feasible spots are covered with trees and vines and flowering shrubs. The new environments will invite neighbors, and a fellow feeling be evoked not yet realized in farm life. The transformation of some of the acres into beautiful parks will naturally develop the social loves of our being, giving a "silver lining" to every cloud of disappointment and care. A park—what is more attractive for children to play in, and the old folks to sit in, and the water springs to gurgles in, and the birds to sing in, as if they, too, could

"Read my title clear to mansions in the skies?"

Our large cities are giving special attention to parks. They are found to be sources of public healthfulness and refinement of ideals that naturally embody themselves in corresponding character. Why should not our country towns and rural neighborhoods follow the example, and even excel the cities in artistic arrangement where landscape variegation war-rants?

ITASKA STATE PARK.

Through the instrumentality of Hon. J. B. Sanborn, of St. Paul, Congress has relegated to Minnesota, in round numbers, 20,000 acres for a State Park, beautifully located at the head waters of the Mississippi. It is in a wild and enchanted region, and will soon be of great value to the public as a place of resort when properly improved and enlarged.

STATE SYSTEM OF PARKS.

There is a plan under consideration to abrogate the tax certificate system under whose provisions unpaid tax lands can be bought up by individuals for speculative purposes. The design is this: If the original owner does not redeem his land within the specified legal time, said lands are to be relegated to the town, county or state under specialized conditions, to be thenceafter consecrated to tree growing, as parks to all practical purposes, the profits of which accrue to the rightful proprietors for the payment of costs and further purchases and improvements. This would establish a park system on a grand scale, inductive to the further conservation of our forests.

Wood Pulp.

According to statistics of the wood pulp industry of the United States, 1890, there are 237 mills, having a total capacity, mechanical and chemical combined, of developing daily 4,000,000,000 pounds of pulp. In the last eight years the business has increased nearly 500 per cent. In 1888 the pulp stumpage was valued at \$2,235,000; the ground product was estimated at \$12,375,000. The figures also show that the present consumption of wood per annum for pulp is 1,000,000 cords. The percentage goes up with the increase of demand; and in a few years more, millions of cords will swell to billions. Couple the pulp consumption of our woods with what is used in sawn lumber and what fires annually destroy, and what will we have left at the beginning of the 20th century, unless immediate and ample arrangements are made to grow new forests on a scale commensurate with the demand?

Pulp was used first only for the manufacture of paper; now-a-days it is transformed into tubs, pails, barrels, water pipes, wash-boards, kitchen utensils, doors, caskets, flower-pots, horse shoes, carriage bodies, floor coverings, furniture, building ornamentations, and various other useful and beautiful structures. Indeed textile material resembling leather, cloth and silk have been manufactured from it. It forms a protective armor to torpedo rams. Bullets for rifle use are made of it. An entire hotel in Hamburg, Germany, has been constructed from it. Food products are derived from it, also alcohol. There seems to be no end to its uses. As the soft woods contain more cellulose than the hard woods, the former has as yet the higher commercial value.

Speaking of the adaption of our wood to pulp processes, Prof. Fernow says: "The fibers of conifers resemble those of cotton, are of considerable length, flat, tape-like and flexible, which characteristics impart to them superior quality. * * * The poplars which have the longest fibers of those so far used, have the advantage of persistent white color, while basswood, next in value takes a reddish tint, birch a pink, and maple a purple hue, which makes it objectionable; larch is said to color very badly. Spruce, balsam, or hemlock, jack pine, cedar in the north, loblolly pine and cypress of the south, are at present staples. The spruce especially furnishes at present the bulk of pulp manufactured in this country, a frequent practice being to add some poplar or aspen pulp for the purpose of whitening the spruce pulp."

Minnesota has a vast resource for the pulp industry. Millions of her bog lands are densely covered with black spruce, and white spruce is quite common on the higher drained lands. The latter is one of the most enduring trees of our prairies. The poplars are immeasurable, growing everywhere on the denuded districts of our woodland country, and largely sprinkled among our other timber trees. The poplar is a rapid grower with us; in fifteen years it is suitable for pulp manufacture. Enterprising men in Minnesota are beginning to improve the pulp chances. The paper mill at Little Falls, for example, is doing an immense business in this line, profitable, too, for the farmers who supply the raw material.

Mosses.

A rich variety of mosses grow all over our wild woodlands and along the damp shores of our prairie streams and lakes. They cling to the rocks, hang in festoons over the water springs, climb the shady sides of the great trees without breaking their continuity, sometimes higher than one's head—lichen flora which the haunting Naiades have planted and trailed upward with sweet persuasion.

The mosses living on vegetable decay and even on the rifted rocks, suck up the moisture from the air and ground, and hold it in reserve from undue evaporation for distribution in mid-summer when most needed. How few people think of their beneficent uses! They do not pause to consider, that, in destroying the forests by axes and fires to the ruin of "God's first temples," they arrest nature's processes of vegetable resurrection, break down their capillary compensation provided for our common welfare, and thus break down our water reservoirs to the serious injury of the lumber and agricultural industries.

Hedge Management.

Joseph Meehan gives the following good points in the *Practical Farmer*: A hedge to be perfect must be broader at the base than at any other part. The first summer pruning is mainly to thicken the hedge and strengthen the base. To do this the top and most of the upper branches are clipped off, while the lower ones are touched but little in the old hedge, and not at all in the young one in which the shape has not been well formed. As soon as the tops are cut away the sap flows to those remaining, greatly invigorating them. In old hedges where shape and bushiness have already been attained, the whole of the hedge may be trimmed back to thicken it, but let the severest cutting be at the top. For every branch cut off, a half dozen new ones form, so that in time a hedge becomes so dense that a bird can hardly fly through it. After the first cutting there will be more growth made and this is allowed to grow on as long as it will. When all growth has stopped, which will be in September in the Middle States, the hedge is gone over again, and cut clean into a good shape, which should be neither too round nor too pointed. In connection with this it may be said here that single trees should be pruned in the same way that the hedge is. Bushiness comes from stopping the leading shoots, for they are done growing. Pruning in winter acts the other way, encouraging an extra strong top growth.

Equilibrium Lost.

The kingdom of Spain was at one time the most opulent of the powers of Europe, but its decline dates back to the time when the destruction of its forests began; the climate became arid; the streams refused their life-giving flow to agriculture, and the broad lands that once yielded an abundant harvest had to be abandoned for lesser fields, situated nearer the sources of streams and in the mountain declivities. No forests had been reserved, as in the other countries of Europe, and when, in later years, they sought to remedy their great mistake by following the example of their neighbors, in the work of reforestation, they discovered, as one writer puts it, that while trees induce humidity, it first requires humidity to induce the growth of trees. Confronted by this important law of nature, they saw their well-meant efforts rewarded with only the most meagre and discouraging results, and realized then that the lesson taught them in the merciless school of experience had come to them too late for the relief or their country. They had waited too long; the point of climatic equilibrium had been passed; and it is doubtful whether even the matured experience of Germany in this science could successfully cope with the alternating drouths and floods that now prevail.—*Martin Conrad, Chicago, Ill.*

Wash for Trees.

So rapacious in the winter are the jack rabbits and other rabbits, and mice, too, even some of our most valuable forest trees are not exempt from their teeth gnawing. Treading down the snow may exclude the mice, but not the rabbits. Some men tie tar paper around the young trunks, but this is not to be recommended. It is too heating and draws the sun. Any kind of white paper is far preferable. The following wash is said to be an excellent thing:

Dissolve one pound of copperas in two quarts of boiling water, add this to a pail of ordinary lime white wash, this will cause it to thicken; add a handful of common salt; thin with water. The wash is now ready for use, and can be kept in a cellar, ready to apply at any time by not allowing it to dry up. Apply to trunk of trees in May and June to keep out borers, apply in fall to keep off rabbits. Applied last of January or first of February will prevent sun scalds. This wash is cheap and easily applied, and is useful on all kinds of trees.

No use dwelling on the benefits to accrue from the planting of trees on the Northwest prairies. Let the government make a beginning by starting experimental stations, nurseries and plantations of trees, under the care of the mounted police, at every one of their permanent headquarters. It will be an example to the settlers; the young trees raised from seed, at a nominal cost in the nurseries, can be given to them. The work will not interfere with the duties of the mounted police, and it will interest and improve the men, in every way.—H. G. Joly, of Quebec.

The woods hold the water; the water makes the meadows; the meadows the flocks; the flocks, the manure; the manure, the grain.—French Forester.

Lumber Interests.

Pine lumbering in Minnesota has been the prime factor of rapidly peopling this part of the Northwest. The first saw mill used for the United States garrison, at Fort Snelling, was erected in 1821, at the falls of St. Anthony, the great Mississippi water power of the present city of Minneapolis. From the start this city has been the main center of the lumber industry. The year demarking the improved methods on a scale of vastness, is 1870. The production of lumber by the Minneapolis mills alone, dating in that year and ending in 1892, is estimated in round numbers, at six billion feet, board measure. It will exceed half a million this World's Fair year. Though this city still holds the vantage ground, there are lumber operations in all available parts of the State, Duluth being a strong competitor. "The tendency of all productive industry to centralization for purposes of economy and effectiveness is especially noted in the manufacture of lumber." Though we have, according to the statistical returns, about 330 mills, large and diminutive, in Minnesota, but few comparatively do the business. Practically our lumber interests to-day are under the control of three or four great capitalistic corporations. It is estimated that not over 25,000,000 feet of the standing pine are now owned by lumbermen outside of these corporations. There are large quantities of pines on School and State lands, the stumpage of which the independent lumbermen buy; and the order and rule everywhere are to "take everything clean, sound and defective, counted in just scaling." Fire has the rest.

PINE TIMBER STILL LEFT.

The main body of the pines yet standing lies north of the Northern Pacific railway; south of it are scattered tracts, but fast receding under the increasing demand for lumber. The aggregate in solid feet of the pines still left to supply our markets, is variously estimated, some putting it as high as twenty billions. There is no possible way to measure here with certainty. - Conservative men put it at thirteen billions in the several timber districts known as the Hastings, Red Wing, Winona, St. Croix Valley, Duluth, St. Paul and Duluth railroad and Red River.

LUMBER EMPLOYEES.

It is estimated that 800 men are employed in the pinneries of the Mississippi waters. It takes, on an average, thirteen men to the million feet to get the logs. The exact figures of the cut in the mills last year, including shingles, are 1,344,000,000 feet. According to this data, then, the number of men employed in the woods was 17,472. Add 10 per cent. for increase of business over last year, and the figures stand 19,220 men for the whole State in the winter of 1893. It takes twelve men to the million for the manufacturing and delivery of the lumber. The wages paid to work hands exceed those of the agricultural industry, averaging, in the woods this year, \$29.50 per month and board; and at the mills, \$2.75, self-boarding, per day.

HOW LONG WILL THE PINES LAST?

Among the principal mills operated by the great corporations, are those of Minneapolis, Duluth, Winona, Hastings, Stillwater, Little Falls, Brainerd, Carlton and Cloquet. The upright and circular saws in board-making are giving place to the band saws, that speed as with the teeth

of lightning, eating up the forests a thousand times faster than when we were boys and girls. The business is power indeed, eclipsing all other industries. What is done in Minnesota on this line is an index of other lumber states. The aggregate value of the wheat crop is but a third of the annual product of the woods. Summarize the value of all the stone quarries, petroleum resources, steam boats, sailing vessels, canal boats, and it is less than the annual value of the forest product of the nation. Put together the gross incomes of all the railway and transportation companies, and yet they come not up to the lumber of the states. The product of our woods in dollars and cents applied to-day, would more than wipe out the entire public debt. Is this mighty product diminishing? Yes, at the rate of 40 to 50 per cent. greater than the reforestation. Must Minnesota step down with her sister states? Yes, if the extinction of her pines is that step. How long will her pines last? Ask the insatiate markets; ask the axes; ask the band saws; ask the consuming fires. Date from the highest figures—20,000,000,000 remaining in the wilds of Minnesota—2,000,000,000 cut per year; how long? Ten years, and the last timber pine is sold! But the conservative estimate is safer. How long? Ere the twentieth century has dawned, the legacy we have inherited cannot be transmitted to our immediate successors. It is not pleasant to contemplate. But Minnesota is not forgetful of her public trust. Her mandate is, "reserve something—economize the cut—exclude the fires—grow new installments of valuable trees on all the waste places!"

Government Reservoirs and Trees.

By the munificence of the national government, Minnesota has laid the basis of a great water reservoir system, which, with a corresponding development of forestry to feed it, will become one of the most gigantic and practical on the continent. Elevated 1,275 feet, average, above the sea, it has sufficient decline for all flowage purposes, and so level is its surface, compared with hilly and mountainous districts farther west and east, the water can be readily retained without the usual expense of irrigable enterprises, for the abundant growth of vegetation wherever applied.

NATURE'S UNEQUAL DISTRIBUTION.

In an able paper written for the forestry meeting, held at the State Fair, September 8, 1892, Major W. A. Jones, of the Engineers Corps, U. S., in charge of the reservoirs at the head waters of the Mississippi, said: "All vital growth is dependent upon and largely nourished by water and oxygen. The atmosphere which envelopes the earth is loaded with the latter, and hence it is, with rare exceptions, within easy reach of all living forms. But water does not permeate the environment of all living things with precision and in sufficient quantity. Not enough of it gets into the atmosphere to go round; all sorts of things interfere with its air-line distribution, and, as a consequence, some localities get too much, others too little, and some none at all.

"Of the conditions under which the air gathers it up from the surface in wet places and distributes it over the earth in both wet and dry places in the form of rain, we know some, but not many, nor enough. We know

that the quantity of water carried away from a wet surface is a function of: (1) the temperature of water; (2) the carrying capacity of the air; and (3) of the quantity of air brought into contact with the surface in question. We know that while carried as vapor in the air, certain undefined conditions of heat and electricity will cause it to liquify and fall back to the earth's surface. But beyond this we are mostly in the dark. We can only believe what we see and foresee but a very little bit.

NOT ENOUGH TO GO ROUND.

We are thus led up to the fact that for considerable areas of land in the United States there is grave doubt as to whether the rainfall will continuously be sufficient for the cultivation of the soil. For still larger areas it is certain that the water supply is not sufficient. It is probably true that we are powerless to influence rainfall. But it is certainly true that we can as a matter of engineering skill, imitate nature by gathering water in great reservoirs in favored localities and lead it to and over and upon the unfavored ones. I cannot too strongly accentuate the fact that this is a matter of engineering, and must sooner or later be handled by engineers.

ART OF ENGINEERING.

"The art of the engineer is to control and adapt the forces of nature, in a feeble way, to the uses of man. He is the only one in the body politic of society who has practical experience in dealing with those forces in that way. He will tell you that the handling of water is the most difficult problem of his art.

I need not expand upon the application of all this to forestry. This art has for its object the preservation of the old, the creation of the new. Wherever it goes, water is a vital factor.

A COLOSSAL EXAMPLE.

"In the interests of the navigation of the Mississippi river, the United States has established a colossal example in the conservation of water. It is rather an obvious proposition that more water will improve the navigable capacity of any river. And the greater the navigable capacity of any waterway, the greater its commercial value. But it is not generally known that this latter value increases very much faster than the former.

CAPACITY OF THE MISSISSIPPI.

"It takes however, a great deal of water to help a river. The Mississippi, near St. Paul, requires over 3,000 cubic feet per second before it can accommodate boats drawing three feet of water. This means a little less than 2,000,000,000 gallons per day. The reservoirs are designed to furnish about that quantity of water during the period when the water in the river is ordinarily low. This period varies from sixty to ninety days, and hence the whole quantity that may be called for in a season is about 180,000,000,000 gallons. Their maximum capacity is about 675,000,000,000 gallons.

PRESENT RESERVOIRS.

"Four reservoirs are completed and in operation:

LAKE WINNIBIGOSHISH.

Watershed, 1,422 square miles.

Water surface, 110,206 acres.

Storage capacity, 344,000,000,000 gallons.

LEECH LAKE.

Watershed, 1,225 square miles.
 Water surface, 110,632 acres.
 Storage capacity, 225,000,000,000 gallons.

POKEGAMA.

Watershed, 630 square miles.
 Storage capacity, 35,000,000,000 gallons.

PINE RIVER.

Watershed, 602 square miles.
 Water surface, 15,206 acres.
 Storage capacity, 56,000,000,000 gallons.

SANDY LAKE (NEARLY COMPLETE.)

Watershed, 384 square miles.
 Water surface, 7,522 acres.
 Storage capacity, 15,600,000,000 gallon."

THE CANALS OF BABYLON.

The Major suggests that "the fertile plains of Babylon and Tyre were on the border land of desert." Very probable; for Babylonia is a dry steppe or table land, naturally fertile, but incapable of luxurious vegetation without irrigation, as are the Great Plains.

THE WATER PROBLEM.

Estimating our average rainfall at 25 inches, we have in round numbers 274,725,378,027,281 gallons falling annually upon our State. What becomes of all this water? According to Lieutenant Maury, the precipitation of the Mississippi river basin amounts annually to 620 cubic miles of water. The estimate of the discharge into the Gulf of Mexico is 107 cubic miles. This leaves 513 cubic miles for evaporation and soil and vegetable absorption. Calculating the immeasurable hungry mouths of our crop vegetation growing in our soils, rendered porous by culture, it is safe to say one-half of our precipitation is thus absorbed, and this percentage is augmenting proportionate to the increase of population with corresponding increase of agricultural advancement.

Knowing that by virtue of location Minnesota is the lock and key of a continental commerce, master thinkers and engineers are studying the problem, how to utilize to best advantage the mighty tides of surplus waters that gather at her watersheds, which in the spring flood the plains here and below us, leaving but ruins of property and life in their wake, sure to react, as in Babylonia, into drouth and harvest destitution.

DRAINING THE SWAMP LANDS.

A project is in agitation to drain the State swamp lands in the far north. They are now more or less overgrown with decaying black spruce and tamarac, and carpeted with mosses, reeds, cranberries, blueberries and other vines and shrubs, conserving vast bodies of moisture that feed our lakes and rivers, and are there of immeasurable benefit. But the time has come when they must be put to new and better uses without losing water supply. The claims of agriculture now take precedence. Properly drained they will make the best of farms, waiting to be subdued and occupied by intelligent emigrants. Our valuable timber trees.

such as the pines and hardwoods, cannot grow in swamps and bogs; they must have lands with natural drainage. There are enough non-agricultural lands to serve this purpose, and at the same time conserve our waters with equal facility under leady and root-matted floors.

CANALING THE WOODLANDS.

The proposition, therefore, of canaling the native woodlands for agricultural and commercial purposes, seems very feasible, and will no doubt be eventually consummated, having at length a net-work of irregular canals extending into prairie portions of the state. No floods need then accrue. The surplus waters will be conducted into the gulches, lagoons, lakes, and husbanded over the prairies, the whole system held in reserve by the government dams to be distributed when needed for river driving and navigation as now, and farm irrigation with certainty of crops.

Evolution of the Primaries.

Fine and beautiful as is Parian marble, when pulverized by burning, is it intrinsically valuable for crops? Not half so much as an equal volume in weight of lime from the chalk cliffs of England.—That marble and the chalk are alike carbon. Chemistry detects no difference here, but experience proves that, while the chalk is wealth, the burnt marble, so precious in crystallized form, is poverty itself to the plant.

NATURE AHEAD OF ART.

Certain rocks are phosphates, which also enter into the composition of plant tissue. Apply chemical analysis here, find therein the lime and the phosphoric acid, and find in the bone of animals the same constituents in the same relative proportions originally developed from the rock—is there any difference in crops? We might safely say the bone is seventy-five per cent. ahead of the rock, simply for the reason that it (the bone) has “passed through the chain of progression through which all the primaries have passed reproducing the higher form of organic life.”

CHAIN OF PROGRESSION.

Plaster of Paris is sulphate of lime; in the bone is sulphate of lime; and chemistry says it is one and the same; but for a higher class of plants that of the bone is far more efficient. Treat the bone sulphate with sulphuric acid to render it super-phosphate of lime, and it is a thousand fold ahead of plaster of Paris direct from the quarry.

“BLOOD OF THE ROCK.”

Here are ten pounds of bullock's blood diluted in one hundred gallons of water; and here are the same chemical ingredients in equal quantities alike treated—the potash from the sulphur, the potash from the felspar, the phosphate from the apatite rock, and other constituents from their primary sources; the chemical analysis is the same; but sprinkle a patch in your garden with the diluted blood of the bullock, and an equal patch right beside it with the manufactured “blood of the rock,” and mark again that the difference in effect is as great as in the other cases—your vegetables that drank what once life circled in the arteries of the animal,

are splendid while those of the other treatment are poor, half starved, shriveled up specimens on a par with a laborer who lives on hard-tack cakes buttered with olemargarine.

THE FOREST-HYPHEN.

As we read up the divine book of nature, we shall find that the central link or hyphen between the crude primaries and the higher and more beautiful forms of life, is the forest. Without this the processes of progress are interrupted. The forest makes the humus of the soil; mollifies, electrifies, and distributes the rainfall. The forest is nature's alembic, by which the very air we breathe is fitted to vitalize the blood and quicken the brain to balanced action. The forest is the heraldry of the Christ of good fruits.

Forestry at the State Fair and Annual Meeting of the State Horticultural Society.

At an interesting forestry meeting held at the state fair, September 8, 1892, able papers were read on the preservation of our native forests, from Prof. S. B. Green, Major W. A. Jones, of Engineers' Corps, U. S. Army, in charge of reservoirs at headquarters of the Mississippi river; Prof. B. F. Fernow, chief of forestry division, Washington, D. C.; Col. E. F. Ensign, Prof. George H. Parson, of Colorado Springs, Colorado; Hon. A. V. Clubbs, Pensacola, Florida, and others. Prof. W. W. Pendergast, Principal of the Agricultural School, talked in a conversational manner, practical at every point, on the educative influences of trees, their protection for the farm and home, their climatic and æsthetic uses.

H. C. Putnam, of Eau Claire, Wisconsin, one of the leading lumbermen of the Northwest, who is thoroughly posted in the forest situation of the country, showed that all that vast territory north of the Mesaba ridge, having northern drainage into the Rainy Lake waters, is practically used by the Canadians; that our government gets from the squatters and settlers only the legal fee, \$1.25 per acre, while the timber is all floated out of the country. He would have all that portion of the public domain withdrawn from settlement and rescued from trespass and fires. He also showed that the turning of the waters of the Bowstring this way by a canal is a practical undertaking, affording means by which to float the logs from the northern slope down into the Mississippi for the benefit of the United States people, and for better navigation of this continental river.

S. M. Owen, editor of "Farm, Stock and Home," compared forestry for agriculture to the human lungs as essential in fact to this industry as air and sunlight. He pictured the sorrowful condition of the Adirondacks, once so famous for water-falls and sylvan beauty, but now desolate on the mountains and valley—traceable to forest vandalism and fires. He showed that the decadence of agriculture always and everywhere keeps pace with the decadence of the forests. He urged unfaltering action to secure the proposed Forest Reserve on the public woodlands of our State.

The following petition was then read and signed generally by the enthusiastic listeners:

PETITION FOR A FORESTRY RESERVE.

To The Honorable Senators and Representatives of Congress:

The undersigned citizens of Minnesota set forth that the annual fires on the woodlands of the public domain, have destroyed much valuable timber and largely injured the forest conditions necessary to economize our waters; that the stealage of timber has been immense; that the methods of cutting have been wasteful and ruinous to timber preservation and culture. We therefore respectfully urge the passage of a bill which shall ask for a practical system of forestry, managed by proper police forces to guard against fires and trespass, and develop forest growth. In accordance therewith, we respectfully urge that a reserve in one body, or in separate sections, be located on the public domain at the sources of the Mississippi, Red, St. Louis and St. Croix rivers, or other points, carved out of non-agricultural lands, aggregating not less than 2,000,000 acres, and so regulated as not to restrict the rights of bona-fide settlers, nor the rights of lumbering, mining and railroading, but rather to promote these industries without detriment to forest preservations.

HORTICULTURAL ENDORSEMENT.

At the forestry session of the State Horticultural Society, held in the evening of the 13th of January, 1893, the above petition was unanimously endorsed by said society, to be incorporated in its annual report, and signed by the members. It now meets with general favor by all classes, lumbermen, with few exceptions, raising no objection to the undertaking on the provisions mentioned.

A Bird Gospel.

Oh, for a bird-gospel preached in all our pulpits, and taught in all our schools, and published in all our presses! There is no room for self-praise about our Christian or advanced civilization, so long as it is popular to recklessly destroy our forests and the song birds that people them and our meadows and grain fields and gardens. Prof. Samuel Aughey, who knows all about bird habits and bird needs, thus defends them:

"It is remarkable that in the last quarter of the nineteenth century there should be such large numbers in the most enlightened countries in which the savage spirit survives. For shooting wild birds, often maiming and crippling them, inflicting on them the acutest torture, is no less cruel and brutal than the cock fighting of Spain, and the bull and other animal contests of imperial Rome. In many respects it is much more cruel. Birds have a very highly organized nervous system and must be keenly susceptible to pain. Almost everything they do indicates this. Their quick movements, their marvelous aerial evolutions, their attachments, their maternal instincts, their evident enjoyment of the beautiful, and the wonderful powers of song that many possess, all attest their high physical organization and prove the greatness of the cruelty that would ruthlessly deprive them of life. The surprise is greater when we reflect that some men of education, and in other respects of high character, indulge in the so-called sport of shooting innocent birds. It may be sport, but is it not the sport of a barbarian and the enjoyment of a savage? No doubt future ages will look on the wanton killing of birds in this period with the same surprise and disgust that we feel on reading the stories of the animal contests in the Roman arena."

Trees for the Farm and Home.

Extract from an address delivered by Col. John H. Stevens, now President of the State Agricultural Society and President of the State Forestry Association, delivered at the Farmers' Institute, Montevideo, 1888:

A prominent promologist in an eastern newspaper recently said: "We should plant trees, first for the ornamentation of the farm. I feel confident that I am addressing myself to an intelligent and appreciative class of men, who will be willing to admit this idea for its true value to them on their farms. You know that your farms are worth more for your efforts at improving and beautifying them not only for market, but also for your own personal use. You know that they will sell readier, and that they will bring you more money when sold for the beautiful trees that are planted upon them. You yourself would not take much money to have those trees removed that your own hands have planted and you have watched with care. In all our sterner thoughts of life we cannot afford to altogether ignore the beautiful in nature and the beautiful in art. To you "A thing of beauty is a joy forever" as well as to the rest of humanity who are even now panting for the beautiful. Again, "Life without beauty is a dead and unwholesome thing;" and again, "Trees are fit to minister to man's manly sense of beauty." These are the modern expressions of the deep and hidden sense of the beautiful lying under our sterner natures, and which are so successfully ministered to by the grand and majestic beauty of the living plant or tree. The man who could pitch the dwelling designed for the abode and resting place of his family in a drear and open field, treeless and flowerless, is a long way behind the æsthetics of the age, if he is content to leave it so. He has spent the foregoing part of his life for nothing, and has yet everything to learn respecting the beauty of this life. We know that men are alive to their best interests, and that they must and will plant trees around their farms and their homes for beauty and for use. Everywhere we see encouraging examples of movement in this direction, and much may they be extended."

THE HOMES OF THE BIRDS.

Second—Trees are the homes and meeting places for the birds. Every farmer in our vast country will at once see and recognize the force of this proposition. Birds are the children of the air, and lodge among the branches of our trees. If there are no trees with their wealth of beautiful branches on our place, we can have no birds. If there are no birds there is no restraint upon the millions of devouring insects that are ever ready to prey upon the crops that the honest farmer needs for his bread and his money. So the relation between the tree-planting and the farmer's pocket is established, and is intimately close—closer, indeed, than some of us are aware of. Let us remember that most of the small and beautiful birds that warble among the branches of our trees are insect eating birds, and are our most intimate and devoted friends, ever working for our interests. Let us encourage them and their friendly efforts for our good in every possible way by planting trees for their convenience. The tree and the bird! How astonishingly beautiful these organized objects of kind nature are in their life and their work! Each of them are grand conceptions of Infinite wisdom, and are worthy of our attention and careful study that would fill volumes of scientific and useful teaching.

The tree and the bird? How intimately close is the relationship that exists between the departments of the natural world, between the vegetable and the animal kingdoms! Between the merest vegetable and the highly organized beauty of the air. This relationship is easily traced, the one ministering to the daily requirements of the other. Would we have birds to cheer and to bless us, let us plant liberally the trees they love.

FARM ECONOMY.

Third—The economics of the farm require trees planted. I am sure there is no farmer but will readily appreciate this statement and will immediately pluck up his ears at the mention of it. By the economics of the farm, however, I do not intend the discussion of the most advantageous ways of feeding stock or the best breeds of horses, cattle, sheep, &c., to keep for profit, but rather what are we going to do with those waste lands on our farms that are too wet and mucky to be used for the culture of grain, or that are too rough to admit the plough? These are questions of much importance to us, because every acre of our farms is liable for taxation; and consequently we of all men can ill afford to allow any of it to lie idle. We want it all to bring in something, and something that is useful to us. We advise you to plant the low mucky places with the American larch or with black ash, or with elm or willow; and besides turning a dismal swamp into a field of beauty it will soon be a source of great profit to its owner. The useless land of this country should be planted as early as possible, though in ever so rough a way, with young seedlings of oak, maple, or even a small quantity of the cottonwood, box elder, elm, white walnut or butternut. It would soon astonish the most incredulous to see the quantity and suddenness of the growth and profits arising from these discarded eyesores of the farm. Allow no stagnant miasma holes or useless eyesores on your place to destroy the symmetry and beauty of your lovely farms. Plant them with trees, so shall they be to you objects of pride and satisfaction and blessings to your country.

TREES FOR HEALTH.

Fourth—The healthfulness of the farm. At first sight you may perhaps think that now you have me. We say in all candor plant them on the farm and town lot for healthfulness. It is well known that trees in their growing action absorb in large quantities of gases from the earth and from the air. These gases for the most part are effete animal exhalations that have served a purpose, but are now given off from our bodies as useless, and worse than useless to us. These gases are the very life of the trees, and are absorbed by them in large quantities. Again, the trees give off gases that are useless to them, and these gases are the very food of our life. Only think of an arrangement like this in the infinitely wise economies of nature! The vegetable and the animal—the one mutually dependent upon the other, the lower form living for the higher, and neither of them living for itself. We have thought that a small but wild plantation of trees as a coppice on the lower end of each town and village lot would be the best advice that could be given by our boards of health. How much effete and decaying vegetable matter are recklessly thrown out in the back yards of all our town lots and left to decay and poison the atmosphere we are hourly breathing for our life?

Its deadly influences are sometimes felt by us and the dear ones of our family circle when attacked with the varied forms of acute inflammations or with typhoid fever, and the more dreadful diphtheria. A coppice of wild trees, interlaced with wild vines and creepers, just at the lower end of the lot, would be a calm retreat from the scorching heat, and a reservoir to utilize all the poisons and pestilences of the atmosphere. How simple the remedy, and yet we are paying the debt of our negligence of the species of nature. Blocks of trees and belts of trees on the farm would answer precisely the same purposes, and be an everlasting fund of satisfaction and pure enjoyment. Farmers, let us plant trees for healthfulness for ourselves and for our families. For what are all the wealth of your coffers of gold compared with the unspeakable blessings of health?

MODIFICATION OF TEMPERATURE.

Fifth—It is very generally admitted that trees have the power of absorbing and storing up latent heat, and again giving it out in times of extreme cold. If this is so, and we fully believe it is, how fine is the modifying influence that may be exerted on our climate in its depressing moods? Again, it is believed that the tree has the power of absorption of moisture, and in a time of severe drought again giving it out liberally through its trunk and its branches and leaves in the summer time. This influence ascribed to the tree has the effect of cooling and moistening our dry atmosphere during the heated term. This view presents the tree as an enormous laboratory, utilizing heat and dispensing coolness and moisture to correct the extremes of our seasons. By the simple means of their agency the extremes of temperature endured in every treeless region may be corrected. But further, we have sometimes thought, while sitting under our spreading trees, in the intense heat of summer, that there was always a cooling breeze there, and consequently that they were attractive to coolness and breeze. Have you not many times been struck with the same idea?

If we had the space at our command, we would like much to enlarge here on the subject of wind-breaks and storm-stayers, etc., in relation to trees. We are more than certain that the agency of trees is the most efficient and effectual wind-breakers that can be adopted. We are almost as certain that the same gentle influences may be credited with the cooling and refreshing moisture of many a summer shower that visits our plantations. When shall we arrive at a correct understanding of the great laws of nature, and the governing forces of the world? When shall we learn the proper relationship of one part to another in the arrangements of nature? How can we have the blessings of a fertile and fruitful country without the agency of trees?

DISTRIBUTION OF ELECTRICITY.

Sixth—The distribution of electric fluids in the air. The subject of electricity is a mysterious question that we cannot fully understand. Yet we know that the vast treeless plains of our continent are frequently visited with those destructive influences and the deadly lightning bolt. The great prairies of the West are annually visited by these alarming displays of nature to their serious loss and the discomfiture of the people. In tree-growing regions these displays are less frequent and less severe. Our advice, therefore, is to plant trees around your fields and around your dwellings to ward off the influence of destructive lightning.

TREES FOR SHADE.

Seventh—Trees furnish a friendly shade and cooling breezes for the farmer's children and his cattle. As we have already anticipated this item to some extent, we will here simply say that for this use alone trees will pay far more than they cost. Is it nothing to you that your children have not the cooling shade of the spreading elm tree or the more emblematic maple, under whose spreading branches to enjoy their healthy sports at midday in the height of our heated season? Is it nothing to you that your cattle of pure blood, your horses of noble ancestry, and your sheep of finest clip are left out standing in the melting heat in a friendly fence corner, and without the grateful shade of one spreading branch over their defenceless heads? Oh, I know you count your interests better than this, and though you would not for your children, yet for your horses, cattle and sheep you will provide the grateful shade that blesses them in the burning noonday. Plant trees.

TREES FOR TIMBER.

Eighth—Trees supply timber, poles, and brush for the use of the farm, Oh! you say this is a glaring statement. It will take years upon years after I am old to grow timber, &c., for the uses of the farm from these trees, and we will never see any benefit from the trees we plant! We know from our own experience that trees planted on good soil and doing well for ten years will come into considerable usefulness, especially for poles and brush for the farm. In passing through the southern part of this county last fall with Hon. Mr. Shannon, of Granite Falls, we were amazed at the size and beauty of their fine trees planted on the roadside and in the field. These trees, mostly our cottonwood, maple, elm, box elder, and sugar maples, could not have been planted many years, and yet they were large, fine spreading, handsome trees, and an ornament to any country. Be not, therefore, so easily discouraged. Kind nature is generous of any assistance given her, and what can be done in this county can also be done in any county in the State. Plant trees therefore, as nature can do nothing for the man who will not help himself. If you help her she will reward you with the proudest and most satisfactory results to crown your feeble efforts. Try it!

TREES AND PRECIPITATION.

Ninth. Trees are an encouragement to rainfall and water supply. This is now become a settled principle in the creed of understanding tree planters, and our observation teaches us that it is correct.

Trees by means of their influence on the atmosphere increase the amount of condensation of moisture and precipitation. Again, by means of their roots and their action on the soil they check the force and injury of torrents, and by rendering the ground porous and open largely drink it in, to be given out again when and where most needed. But again, forests, by means of their abundant foliage, evaporate or throw off enormous quantities of moisture into the air, and this, after being carried about by the winds, is condensed by the coolness of evening, and falls plentifully upon the neighboring country in the form of pearly dew. So the action of the trees and the reaction of the atmosphere is constantly going on, and every time man receives blessings by the mysterious arrangement. Plant trees for moisture.

GENERAL BENEFITS.

Tenth, and lastly. By planting trees for ornamentation and shade we shall have more fruit and better fruit, better crops of grain and grass, and better horses and cattle, and more pleasure and purer enjoyments in life. We need trees around our orchards to give out warming and tempering influences in the spring time when the trees are covered with tender blossoms and the air is loaded with pinching cold. We need the presence of trees around our fields and our homes in summer to condense the cooling vapors and to invite the pleasant zephyrs to fan our parched brows. More especially we need the presence of trees in our winters to offer a calm resistance to the raging blast and to shelter the tender buds of our fruit trees from the withering cold and killing frost. We need their grateful presence around the home of our loved ones, for their presence is cheering to our eyesight, and it is a relief to look upon them while nothing but whiteness is all around.

Let us each in our humble way strive to add our humble mite to the sum total of our engagements of this humble life below by planting a few trees to live and testify of us after our heads are laid low and our hands are still in everlasting rest.

State Bounty for Tree Planting.

A new antagonism is springing up against forestry, based on the theory that "it is inconsistent to pay a man for improving his premises with trees; that there is no more reason for this than to pay a man for subduing the sod on his farm and raising a crop on it." This argument, if such it may be called, is irrefutable if trees sustain no broader relation to the public interest than plowing a piece of land or raising a crop of wheat. The State educates the children. Is it inconsistent on the part of the State to pay for such improvement of the family or families? In one sense the children are or will be public property. They are candidates for citizenship; hence the necessity of universal education at the expense of all the people. Though the parent owns the child, yet the State owns the child's example, the child's character, evolving into citizenship. Though the bounty trees belong to the man who plants them, though he is specially benefited as he ought to be, yet the effects of the trees, being unlimited, are State-wide, country-wide. They are factors in mitigating the rigors of our hot and cold winds: they protect the people's crops near and afar; they continue the wood industries; they economize the water; they beautify the landscape; they deepen and enlarge the sentiment of patriotism; they lift the masses out of groveling notions to a worshipful love of "the good, the beautiful and the true." Hence, the State can afford and should encourage tree planting and culture by rewards. It is not wholly an appeal to selfishness; it is rather a means to the ends of general prosperity and progress.

ABUSE OF THE STATE'S MUNIFICENCE.

The only just cause for repeal is the abuse of the State's munificence. Were such abuse the rule, the bounty act should be expunged from the statute. Do what the State may, it cannot wholly prevent individual criminality on the lines of humane conduct. It is enough to know that,

under the bounty act, the southern portion of the State has been forested to a large extent. Since that enactment not less than 50,000 acres of prairie lands have been successfully planted with trees. Three hundred thousand dollars, paid by the State for this purpose, are returned to the State in greatly enhanced values. But not half of the prairie lands are yet properly forested; hence the retention of the bounty act is our necessity. It was noble in those senators who parried off the blows of the men who sought to kill the law that has enabled struggling farmers to raise trees as a personal and public benefaction.

RESPONSIBILITY OF THE FORESTRY ASSOCIATION.

Limited as the means to do are, the Forestry Association must stand as guard over the application of the Tree Bounty Act. The State offers \$2.00 per acre for a term of six years succeeding the first year. This investment is a claim upon such trees. The State must have the trees in return for the common welfare. There must be positive evidences of value received for value tendered. It is not enough to plant the trees; they must be cared for and healthfully alive when the bounty is demanded. The Association feels a responsibility in this matter, and proposes to institute strict investigation wherever needed, and it will be sure to report any and every abuse of the State's generosity. It is not our business as an association, to serve as a forest police, but it is our business to see that tree planting and tree conservation are real things, living things, growing things. With this attainment the duty of the Forestry Association is discharged.

Voices From the Woodlands.

"The Voice of one crying in the wilderness."

I write this while in the woodlands of the North, in quest of wood material for the World's Fair. The region of cut pines extends for hundreds of miles in all directions. Like an eating cancer, the ruin wrought has deadened everything touched by ax and fire. Black stumps are left, but seldom shadowed by live trees, generally the short lived poplars occupy such ground. New trees would have sprung out and densely reclothed these lands had fires been excluded. Nature here has retrograded. The very ammonia in the soil has been burned out. Its nutrition is seriously harmed. What makes the forest real, is gone. The forest roof is broken down. The forest floor is broken up. This characterizes almost the entire woodland condition. Hence, a rapid destruction to water conservation, and the lakes and rivers in these woods are meeting the fate of the departing pines. The hardwoods, too, are doomed. Everything in the shape of a tree or a hoop pole, that can be converted into money, even if the business don't pay over fifty cents net per day, has to come down. A combustible stuff is left in the woods which the annual fire laps up, and the conflagration spreads and spreads, killing everything in its advance, leaving but here and there a green oasis in the general wreck.

This country is naturally adapted to growing the pines and valuable hardwoods; will pay larger in tree crops than in agricultural productions; and, at the same time, such woods, rightly managed, will surely preserve

these head waters and thence our rivers from drying up. Common sense economy suggests that we rescue them from further vandalism. But an ugly opposition pits itself upon such an effort. Certain business men of the trust nomenclature discover that lumber profit on a vast scale is fast approaching an end, and they rush and scramble for the yet unraided pineries before less scrupulous parties from the Dominion of Canada can steal them, or greater fires devour them. Many of the owners of the timberlands are non-residents, living in the great eastern cities, and occupy the same relation to this region that the landlords of Ireland, while rioting with "wine and women" in the cities of London and Paris, do to their tenant farms.

There is another factor in the ruin going on, not so culpable in intent, which must be calculated before the forest problem can be solved. Most of the farmers who have entered claims in these woods, came here poor and remain poor. The trees have been their living. Crop raising has not paid of late years under the piratical monopoly of the markets. They have therefore neglected their farms for lumbering business on a small individualistic scale, and not a few trespass upon the territory of the absent landlords. We have, then, two classes of lumbermen—the syndicates who have capital to absorb the best and get the most, and the "poorer fry," derisively so called by their lords, who content themselves with taking what escapes the first axes and the last fires. Looking the situation all over, woeful is the aspect, foreboding terrible disaster to our business interests, not only in the lumber line but especially in agriculture that depends directly upon forests to break and soften the wind and frost and furnish water for crops.

THINNING OUT.

There is such a lack of good common sense in the management of utilizing these valuable woodlands! No attention is paid to economic methods of thinning out. Nowhere do the owners seem to think that trees in a compact body mutually protect each other against the death-dealing blows of excessive heat and cold in our climate, and that where they make great and sudden gaps among them, they are wrecking the remainder of their forests. Not over a third at the utmost of the trees should be cut at a time, and that too with wise management, that the law of mutual protection shall hold intact.

WIND BREAKS.

Minnesota has its "big woods" its pine lands, its "park region" (a beautiful collection of lakes, groves and prairie), but the greater part of its rich agricultural lands are prairie lands. A prairie of rich soil with water in streams or from inexpensive wells, but with a sweep of winds from the south in winter, that call loudly for "protection" not found in politics but in trees. These winds have been the wings of the autumn fires. They are not needed now. Many a prairie farmer has wished that those wings were clipped! An old man, a changing resident of many estates, a typical New Englander, one of Dr. Holland's "God's nervous unrest," once said: "Tell me where the cuss hain't lit and I want ter go!" This quaint remark is a true way of saying that the best lands have their demerits. The greatest enemy upon our prairies is the wind. Note the evils entailed:

1. They increase drouth by licking up the moisture.
2. They prevent fertilization of plants by blowing away the pollen. This is the main reason why our prairie corn fails so frequently to fill out at the tip.
3. The fine tilth of soil when bare of growing crop is blown away. This is a very severe loss.
4. Stacks are untopped, shocks thrown down, and men and team waste their strength in the field fighting the winds. Every prairie farmer will recognize experience in these statements.
5. In winter, cold is intensified and snow blown from where it is needed to where not wanted.—Farmer's Institute.

The Native White Pine.

Undoubtedly the most majestic and picturesque tree of northern forests is the familiar white pine, and no other is so valuable in the common arts of life. As an ornamental tree the white pine deservedly stands high; for while it is a strong grower, its long and flexible leaves relieve it from that feeling of harshness which attaches to the Austrian and Scotch species. And its very familiarity is a strong point in its favor, for it strengthens the ties of old association, and carries our thoughts into our own woods and over our own hillsides. It takes kindly to cultivation, too, demanding only a dry and rather loose soil, and no extra attention. It is too coarse for the immediate vicinity of the house, yet it can come closer than the other large pines. The long, slim cones of this pine distinguish it from all its congeners in the East, and they have about them more grace of form than any other pine-cones which come within the possibilities of our gardens.

But the white pine is most characteristically a part of our landscape when it stands alone in some field or on some declivity, shorn of some of its limbs, and bravely struggling against the inevitable march of time. We appeal to our readers to spare these isolated sentinels; and we hope they will not forget to give the younger brood a place about the home.—*American Gardening.*

Petition for a Forest Reserve.

To the Honorable Senators and Representatives of Congress:

The undersigned citizens of Minnesota set forth that the annual fires on the woodlands of the public domain, have destroyed much valuable timber and largely injured the forest conditions necessary to economize our waters; that the stealing of timber has been immense; that the methods of cutting have been wasteful and ruinous to timber preservation and culture: We therefore respectfully urge the passage of a bill which shall ask for a practical system of forestry, managed by proper police forces to guard against fires and trespass and develop forest growth. In accord therewith, we respectfully urge that a reserve in one body, or in separate sections, be located on the public domain at the sources of the Mississippi, Red, St. Louis and St. Croix rivers, or other points, carved out of non-agricultural lands, aggregating not less than 2,000,000 acres, and so regulated as not to restrict the rights of bona fide settlers, nor the rights of lumbering, mining and railroading, but rather to promote those industries without detriment to forest preservation.

Climatic Sanitation.

By the agency of trees we have more equability of climate, which can be obtained by no other way. They keep the ground healthfully cool in mid-summer by obstructing the heat rays; by their millions upon millions of leaves they filter and vitalize moistures and exhale it upon the air properly prepared for us to breathe; by their roots they take up for growth vast amounts of stagnant water which otherwise would breed pestilences; by nitrificative processes they aid in the introduction of oxygen into the soil for healthful aeration to plant and animal life; by evaporation they produce a salubriously cool and moist atmosphere, forestalling chills incident to rapid radiation of heat.

Biederman's *Ceniralblatt*, a German review, affirms that "wooded districts are not troubled with smoke, injurious vapors, or germs and bacteria that are found in towns. The innumerable leaves and branches of a forest in a manner filter the air, and retain the micro-organisms which float in the lower grounds, besides woods cut the cold and dry winds so dangerous to the organs of respiration and render the temperature more uniform." By scientific experiments on heat radiation, Prof. Tyndall demonstrated that were it not for an invisible gaseous envelopment with its moisture surrounding the earth, largely evolved by forests, "It would long ago have radiated its heat to an extent totally destructive to every living organism."

THE CIRCULATORY SYSTEM.

What the lungs are to the body, the forests are to the country we live in. Dating our rainfall at the highest, averaging 28 inches, six inches at least is wasted in destructive floods. In round numbers this would amount to 100,000,000 gallons per square mile of surface lost to food plants, lost to the people of the towns and cities whose water necessities are constantly augmenting. The forested ground covered with leaves does not freeze as readily nor so deep as those of the treeless prairie. Hence, ordinarily, more water can be absorbed and retained in the forests. In the open country snow melts before the ground is thawed out, and that, too, at a season when the atmosphere is considerably saturated with moisture, preventing evaporation to an extent. Then we have our usual spring waste of water, and in summer, when the ground is baked hard, a large per cent of heavy showers run off from our fields and gardens. During the late fall, winter and early spring months, including that of heavy showers in the heated season, water enough is wasted, which, if properly economized, would feed all our plants for healthy growth, and our streams and wells. If we would have paying crops and plenty of water to drink and utilize for mechanical industries, we must copy nature's method, plant wide, dense belts of trees around the slopes and edges of all our hills, our lakes, our rivers, our gullies and sloughs, and build dams where feasible, and dig underground reservoirs where these facilities are wanting, thus saving what runs off to irrigate our fields.

UNSANITARY DREGS.

But there is a sanitary virtue here involved of immeasurable worth. The sands and pebbles purify our surface waters where they flow, more especially if large in amount. Forests constitute the circulatory system. They drain stagnant water and send it back into the air to fall in show-

ers. Their great roots penetrate into the retentive clays, opening channels into veins and cavities, where the water is sipped up by capillation, thus draining large areas of surrounding soil and husbanding it for economic use. Thus the death rate is greatly lessened in the towns and cities. Physicians tell us more than 80 per cent of the typhoid cases are produced by drinking impure water. Sickneses keep pace with the ruin of our forests and loss of our flowing waters. As they become more stagnant in the river troughs, so must we drink of unsanitary dregs. What is the sequence? Poor crops and general ill-health.

Colored Light on Vegetation.

It has been discovered by the spectroscope, that light, when traversing a leaf, shows an abundance of green and red rays, which are not utilized by the plant. This, doubtless, accounts for the fact that young trees will not spring up in the dense shade of the parent tree. Trees differ, too, in the quality of the light that is absorbed and transmitted. Doubtless the mosses and liverworts enjoy the red rays, for they will thrive luxuriantly under the densest forest shade. Some of our forest trees, the ash for instance, will live under the shade of other trees, where a different species will die. Some of the rays transmitted, for instance, by the box elder, whose shade predominates, may be absorbed by the ash. A beech will grow under the shade of an oak better than the young oak itself. In such cases different species of trees mutually support each other. It has been observed that the box elder does less injury to grass and grain under its shade than some other species. The elder seems to favor the growth of grass, while the broad-spreading butternut excels most trees as a monopolist; it injures both grain and grass.

EFFECT OF SHADOWS.

The effect of the shadows of different species of trees elongated, for instance, in the morning sun, is very marked. Though the shadows may be equally dense, the injury on cultivated plants is very unlike. Whether there is any peculiar chemical action, imparted by the tree, cast forward into and with the shadow, we know not; the more plausible inference is, on the data here given, that certain rays are absorbed more by the leaves of one tree than another.

VARIETY NECESSARY.

These experimentations corroborate our observations, demonstrating that trees do better where a variety of species are growing side by side, than they do under our set methods having only one species or variety on the lot. We should ever consider quantities and qualities of foliage when planting in growing windbreaks and forests. This rule holds good in our fruit orchards and floral gardens. We shall thus have luck in making trees live healthfully, better crops and more beauty of leaf structure and color on the lawn and landscape.

Experience the world over has demonstrated that the interests of the people at large are never safe when they relinquish to private ownership and management of all the native forests. The streams, lakes and rivers are directly allied with all our industries. We cannot guard them with too jealous care. For their economic preservation and distribution, for great windbreaks to shelter our crops, our stock and our homes, the people as a whole must retain certain forest possessions, specially blessing the homesteaders.;

Healthfulness of Trees.

In the beautiful process by which the hydrogen of water is wrested from the embrace of oxygen, "sending it kiting into the atmosphere for a new flirtation and inviting the carbon into the nuptial bower," if the acid of the carbon, through which develops the carbo-hydrates, is not sufficiently refined and vitalized in the laboratories of decay and thence of advanced animal and vegetable life, the water and ammonia supplied are so many dead weights hanging upon the plant. No chemical translation then occurs to any healthful extent, and the plant starves amid apparent luxuries. Trees, more especially their lung leaves, serve as alembics through which such acids are distilled, fitting them for the growth of food plants and healthful conditions of atmosphere. The chemical transformation, under the electric force of sun rays, "that organize the carbo-hydrates by the meeting of carbon dioxide and water in the chlorophyll of the leaves and other growing tissues, is an atmospheric purifier," and, therefore, an antidote to germ diseases. In this "chemistry of nature" trees are more potent agents of health than other vegetations, so demonstrated by experimentation. That atmosphere, then, is not best fitted for blood vitalization where forests are wanting. The sudden reaction of high, hot winds into low, cold winds—always occurring on treeless plains—have the same effect upon us as upon our food plants. These atmospheric perils can never be forestalled, or be greatly mitigated, except by the intervention of dense forests and the chemical changes here defined.

Street Trees Poisoned.

Any one taking careful observation will notice that quite a percentage of the street trees in the Twin Cities, of comparatively immature age, as well as elsewhere over the country where dense populations center, is in a dead or dying condition. In Cleveland the losses are serious. So alarming are the losses in some of the great cities of the old world special methods are used to determine the connection between cause and effect, and the establishment of remedial legislation. These misfortunes are increasing. Some varieties, under the same conditions, survive better than others. The conifers suffer considerably.

Among the causes are, no doubt, our stone and cemented pavements and rapid drainage, which impede the aeration of the roots and largely reduce the necessary moisture supplies. There are other direct injuries which reduce vigor and vitality. Leaks from gas pipes saturate and poison the soil near the roots, the same as they do the air we breathe. The sulphuric acid accompanying the burning of soft coal or rock oil also poisons the trees. It is found to injure plants if the air contains but one part of this gas in 50,000.

Prof. J. C. Arthur, of Purdue University, Indiana, says: "More recent experiments by Schroeder (Bot. Centralb., 1883, p. 368) make it certain that even one part in a million is harmful. * * * * * From the well known abundance of sulphur in American soft coal and crude petroleum, there can be no reasonable doubt that it occurs in sufficient amount to largely or wholly account for the destruction of the trees."

Scientific experimentation demonstrates that a potent cause of the destruction of our street trees is to be found in the smoke from the large manufacturing establishments, especially from the oil factories. "The action of the smoke," says Prof. Arthur, "is two-fold—mechanical and chemical. The mechanical action consists in excluding the light from the green cells of the leaf, and thereby preventing the formation of organic matter for the nutrition of the plant. In proportion as the light is excluded the plant languishes. The clouds of smoke that float above the trees temporarily cut off part of the light, and the coating of soot over the surface of the leaf acts continuously. Dust has a similar action, but is a less powerful absorbent of light, and is consequently less injurious. Rough leaved trees suffer most, as the soot and dust are less readily removed by wind and rain."

Prof. B. F. Fernow, chief of the forestry division at Washington, says: "The gases, which penetrate the leaves, not through the stomata, but by osmosis over the entire surface, act injuriously, directly by poisoning and indirectly by destroying the balance between water supply and transpiration, the sulphurous acid desiccating and destroying the tissues of the leaf."

As long then, as the smoke nuisance continues we cannot reasonably look for any practical remedy—our trees will die under long continued coal and oil smoke. How to prevent the escape of the noxious gases should engage the careful attention of our city authorities and boards of health. Protection to human life is here involved. High chimneys do not prove to be altogether effective. Smoke washing by the use of the milk of lime has proved practical in England. It is a very simple and inexpensive method, "nothing but a series of U shaped flumes through which the smoke is made to pass under a sprinkle of water." Other devices, it is hoped, will yet be invented that will be more effective in neutralizing the action of the poisonous gases, for safeguards in our cities to vegetable, animal and human life.

Is it a "Mere Sentiment?"

Speaking of the forests of California, in the *Monthly Californian*, Abbot Kinney says:

"Every true man loves the forest. The gnarled oak, the stiff, slim pine and colossal sequoia, each has for the forester a story, a character and a confidence. The leafy shades and the bosky dell have their delights of silence and solitude. On the upland ridge the breezes clash the needles of the tall old pines high in the air. To the lover listening below it is a sweet song of sorrow, borne to him on a fragrant breeze."

This beautiful allusion to the æsthetic of the forest is followed by a graphic picture of the destruction of the native forests of California.

He gives a sad refrain respecting the disappearance of the gigantic sequoia, "those magnificent monarchs of the forest." What destroys them? The lumber syndicates there. As one by one they fall before the relentless ax, the groan they give is felt by every lover of trees in the enlightened world. In vain we plead, "Woodman, spare that tree!" Abbot Kinney but repeats the story we of the East are telling the people,

and in California as here; the protests against forest vandalism are laughed at and scorned as "impractical," "fanatic," "cranky." All round it is a fight to save our valuable timber trees from utter extinction.

Are we impractical because we sometimes cite to and emphasize the worshipful feeling every true soul cherishes for the protecting trees? Call it "sentiment," if you please, yet it is the mighty force at work to rescue our agricultural, lumber and other correlative industries from a terrible collapse. Blot out the pines, the oaks, the maples and other valuable trees, as men recklessly are doing, or rather prevent their replenishment by young growth, and our business interests fall with them with the certainty that the heart ceases to beat when the dagger pierces it. Our primal object is not to preserve natural scenery, to create parks for recreation and hunting grounds. We offer substantial, economic reasons for forest conservation, knowing the scenic and romantic will next follow and complete our forest devotions. Without forests, we sink back into barbarism; with forests, and their industries evolved, we follow on the advance lines of civilization.

We need a careful classification of public lands under two heads: Lands fit for agriculture, which alone ought to be open for settlement, and lands unfit for agriculture, which ought to be carefully closed against settlement, and kept in forest. * * * *

"It is the purpose of forestry to point out to the lumberman the true method of exercising his own profession, which will provide him material for the future as well as for the present, by maintaining permanent forests through a succession of crops."

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